S/M No. : VTG7J3DET0

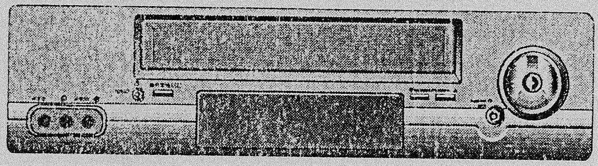
Service Manual

Video Cassette Recorder

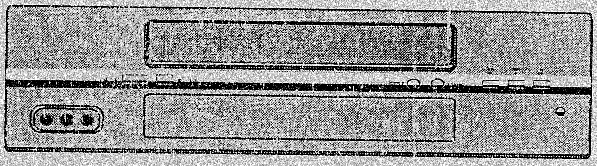
ALL T-MECHA (Hi-Fi/MONO)

Model: (PAL/SECAM MODELS)
DVST7C3/4C3/2C3 Series
DVST7E3/4E3/2E3 Series
DVST7M3/4M3/2M3 Series
DVST7J3/4J3/2J3 Series
DVST7D3/4D3/2D3 Series
DVST7T3/4T3/2T3 Series
DVST7W3/4W3/2W3 Series
DVST7L3/4L3/2L3 Series

ST 260K



DVST7L3



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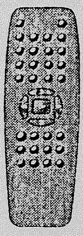
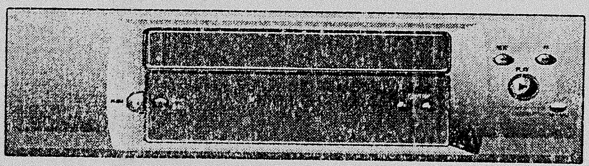
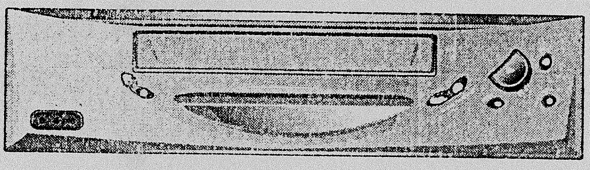


F2TAA2



DVST7C3



DVST7B3

DAEWOO ELECTRONICS CO., LTD.

Apr. 2002

TABLE OF CONTENTS

SAFETY&PRECAUTIONS 2

EXTERNAL VIEWS 4
FRONT VIEWS FUNCTION 4
REAR VIEWS FUNCTION 6

ELECTRICAL ADJUSTMENT 7

SPECIFICATIONS 8

CIRCUIT INFORMATION 9
INTERCONNECT WIRING DIAGRAM 9
POWER CIRCUIT DIAGRAM 10
POWER BLOCK DIAGRAM 12
SYSCON CIRCUIT DIAGRAM 13
SERVO & SYSCON BLOCK DIAGRAM 15
A/V & SECAM COLOR CIRCUIT DIAGRAM 16
VIDEO PLAYBACK/RECORD PATH FOR PAL 18
HIFI & SW CIRCUIT DIAGRAM 19
PIF CIRCUIT DIAGRAM 21

COMPONENTS LOCATION GUIDE ON PCB BOTTOM VIEW 23
PCB MAIN 23

DISASSEMBLY 24
PACKING ASSY 24
FRONT PANEL ASSEMBLY 25
INSTRUMENT DISASSEMBLY 29

ELECTRICAL PARTS LIST 30
PCB MAIN AS 30

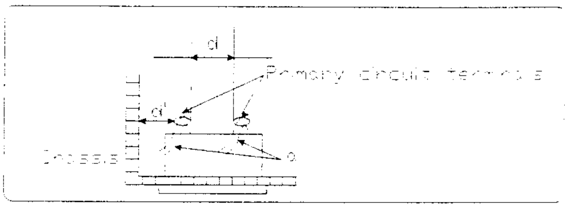
SAFETY & PRECAUTIONS

SAFETY CHECK AFTER SERVING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screw, parts and wires have been returned to original positions. Afterwards, perform the following tests and conform the specified values in order to verify compliance whit safety standards.

1. Insulation resistance test
   Confirm the specified insulation resistance between power cord plug prong and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) isgreater than values given in table 1 below.

2. Dielectric strengthen test
   Confirm specified dielectric strengthen between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input output terminals, microphone jack, ear phone jacks, etc.) is greater than values given table 1.



3. Clearance distance
   When replacing primary circuit component, confirm specified clearance distance (d), (d) between soldered terminals, and between terminals and surrounding metallic parts. See table below.

Rating for selected areas

AC Line Voltage	**Region**	**Insulation Resistance**	**Dielectric Strength**	**Clearance Distance(d),(d)**
100V	Japan	$\geq$1MΩ/500V DC	1kV•AC 1min.	$\geq$3
110 to 130V	USA &•Canada	-	900V AC 1min.	$\geq$ 3.2
• 110 to 130V 200 to 240V	Europe Australia Latin America	$\geq$10MΩ/500V DC	4kV AC 1min.	$\geq$6(d) $\geq$ 8(d') (a :Power cord)

• : Class model only

NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality

4. Leakage current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input output terminals, microphone jacks, earphone jacks, etc.)
Measuring method:(Power ON) Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use on AC voltmeter to measure across both terminals of load Z. See figure2 and following table.

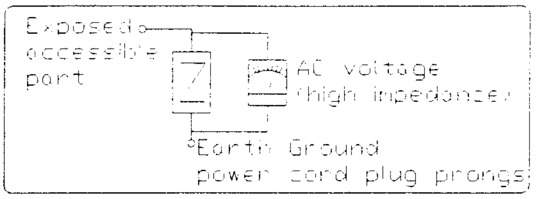

Exposed accessible part
Z
AC voltage (high impedance)
Earth Ground power cord plug prongs

Fig.2

Leakage current ratings for selected are as

AC Line Voltage	**Region**	**Load Z**	**Leakage Current(•)**	**Clearance Distance(d),(d')**
100V	Japan	1kΩ	$i \leq 1$ mArms	Exposed accessible parts
110 to 130V	USA &Canada	15kmF 1kΩ	$i \leq 0.5$mArms	Exposed accessible parts
110 to 130V 200 to 240V	Europe Australia	2kΩ	$i \leq 0.7$mA peak $i \leq 2$mAdc	Antenna earth terminals
		50kΩ	$i \leq 0.7$mA peak $i \leq 1$mAdc	Other terminals

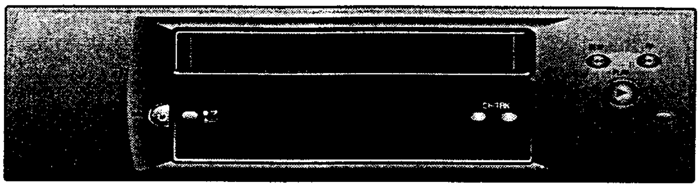
NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

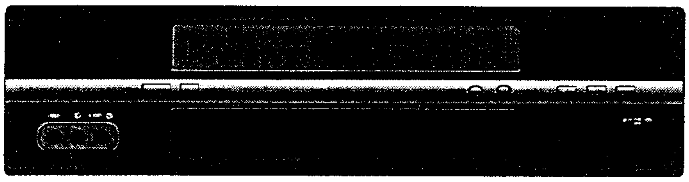
EXTERNAL VIEWS

1. FRONT VIEWS FUNCTION

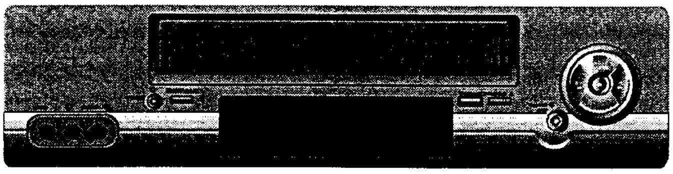
DVST7C3 FRONT VIEW



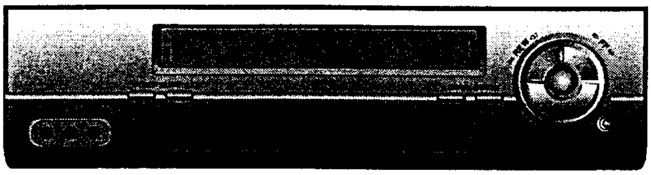
DVST7E3 FRONT VIEW



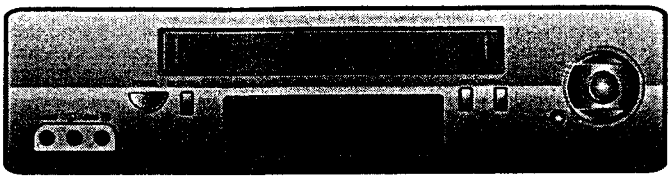
DVST7L3 FRONT VIEW



DVST7M3 FRONT VIEW

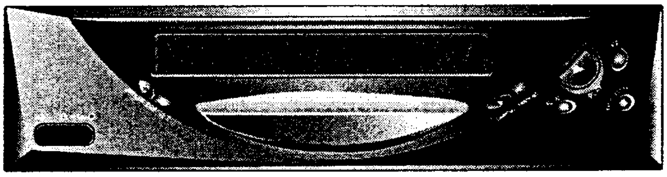


DVST7J3 FRONT VIEW



DVST7D3 FRONT VIEW

DVST7B3 FRONT VIEW



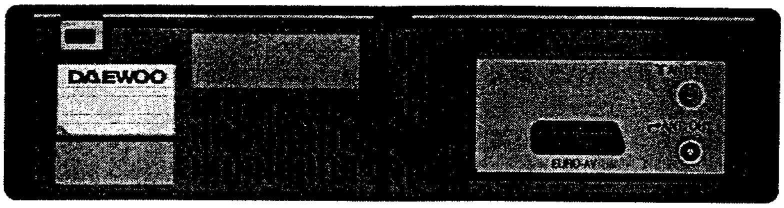
DVST8T3 FRONT VIEW

DVST8W3 FRONT VIEW

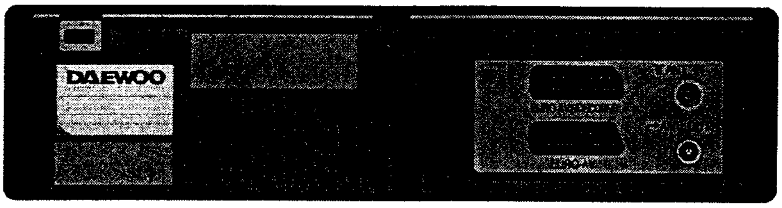
POWER	REWIND / REVIEW
STOP / EJECT	FAST FORWARD / CUE
RECORD	PLAY BACK
FRONT VIDEO/AUDIO INPUT JACK	CHANNEL UP / DOWN

2. REAR VIEWS FUNCTION

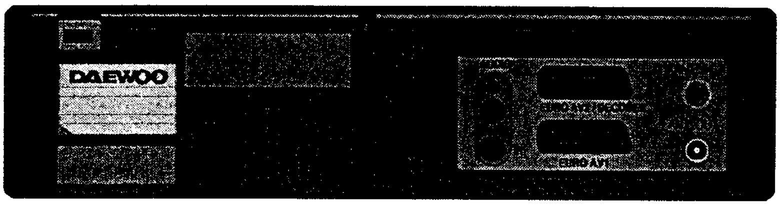
MONO 1 SCART TYPE REAR VIEW


DAEWOO
EURO-AV

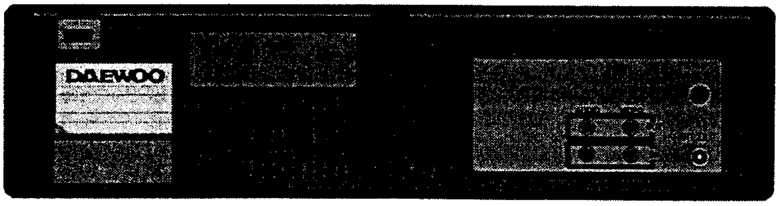
MONO 2 SCART TYPE REAR VIEW



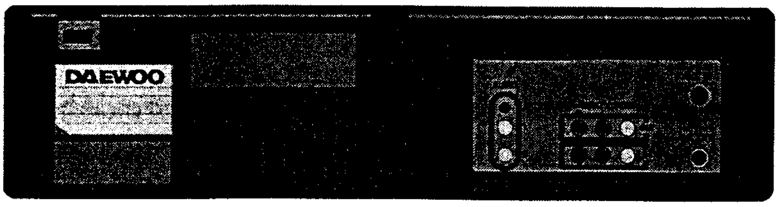
HI-FI 2 SCART TYPE REAR VIEW


DAEWOO
EURO-AV1

MONO RCA TYPE REAR VIEW



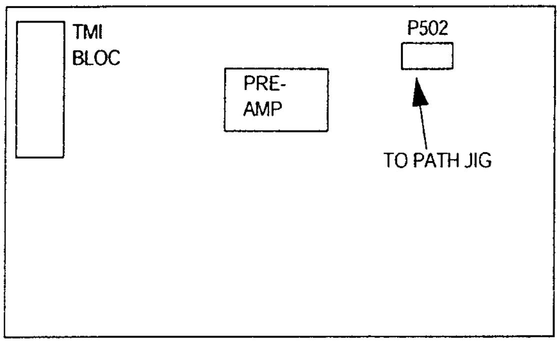
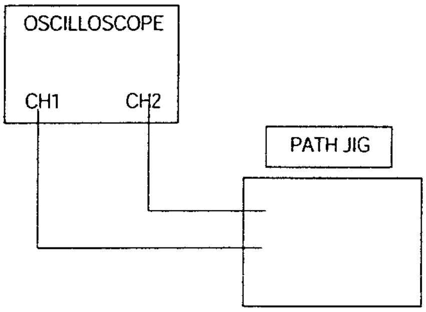
HI-FI RCA TYPE REAR VIEW



ELECTRICAL ADJUSTMENT

1. PLAYBACK PHASE

ITEM	MODE	ADJUSTMENT POINT	CHECK POINT	TEST EQUIPMENT	TEST TAPE	INPUT SIGNAL
6.5H ADJUSTMENT	PLAY	[REC] BUTTON	PIN 4 & PIN 5 OF P502	OSCILLOSCOPE	DP-2	NO SIGNAL

ADJUSTMENT PARTS	MEASURING POINT
PCB : MAIN - TOP VIEW 	

ADJUSTMENT PROCEDURE

1. Play back the test tape. (DP-2)

2. Set the oscilloscope to the CHOP mode. Connect CH1 to the SW PULSE (PIN 4 of P502)

3. Connect CH2 to the ENVE signal (PIN5 of P502)

4. Insert PATH JIG and press "REC" button on the remote control.

5. Check the position of the V-sync from the rising edge of the SW pulse.
   (Standard : 6.5H ± 0.5H)

SPECIFICATIONS

GENERAL	
Power Requirement	AC 230V, 50Hz
Power Consumption	Max. 17W (in REC mode)
Temperature	5×C ~ 35×C (Operating) -20×C ~ 60×C
Operating position	Horizontal only
Dimensions (W x H x D)	360 x 90 x 288 (mm)
Weight	Approx. 3.85 Kg
Format	VHS standard
Tape Width	12.65mm
Tape Speed	(SP) : 23.39mm/sec (LP) : 11.70mm/sec
Maximum Recording Time with full-size cassette	(SP) :240min, with E-240 video cassette (LP) :480min, with E-240 video cassette
VIDEO	
Signal system	PAL/SECAM colour and CCIR monochrome signals, 625 lines/50 fields
Recording system	Rotary two-head helical scan with a slant double-azimuth combination video head
Input	1.0Vp-p, 75ohms, unbalanced
Output	1.0Vp-p, 75ohms, unbalanced
Signal-to-Noise ratio	45dB (Rhode & Schwarz noise meter) with NETTETE IMAGE control at center position
Horizontal resolution	240 lines with NETTETE IMAGE control at center position
AUDIO	
Recording system	Longitudinal track
Input	-8dBm, (CENELEC standard),more than 47 k-ohms, unbalanced
Output	-6dBm, (CENELEC standard), less than 1k-ohms, unbalanced(100k-ohms, load)
Frequency Range	100Hz to 8,000Hz
Signal to Noise Ratio	More than 38dB
Audio Distortion	Less than 3% (SP)
TUNER	
Tuning system	Voltage synthesized tuner Programmable V/S 99CH (Hyper band)
RF Output	UHF channel 21~69 (52)
TIMER	
Memory programmable	99 CH
Back up time	Less than 1 Hour
Clock exactness	In accordance with the exactness of power supply frequency (50Hz)
ACCESSORIES	
Provided Accessories	Remote control unit, RF Cable, Battery

• •Design and specification can be subjected to change without notice.

CHANNEL COVERAGE

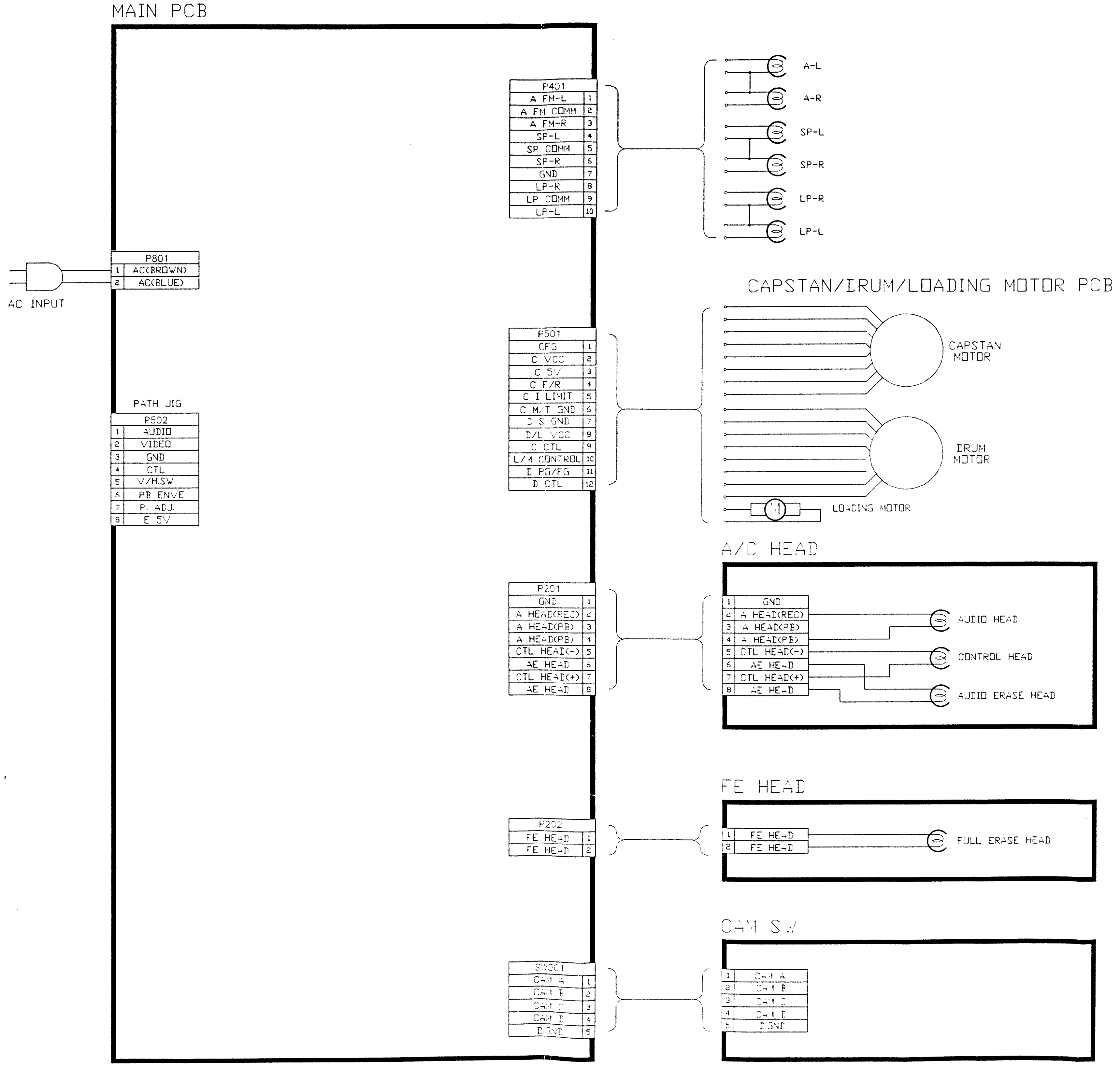
SYSTEM	SECAM-L PAL, SECAM-B/G, PAL-I/I PAL, SECAM-B/G, D/K, HYPER BAND	PAL-I
CHANNEL	VHF Ch 2~12 UHF Ch 21~69 CATV Ch X,Y,Z S1~S41	UHF Ch 21~69

INPUT/OUTPUT JACK TYPE

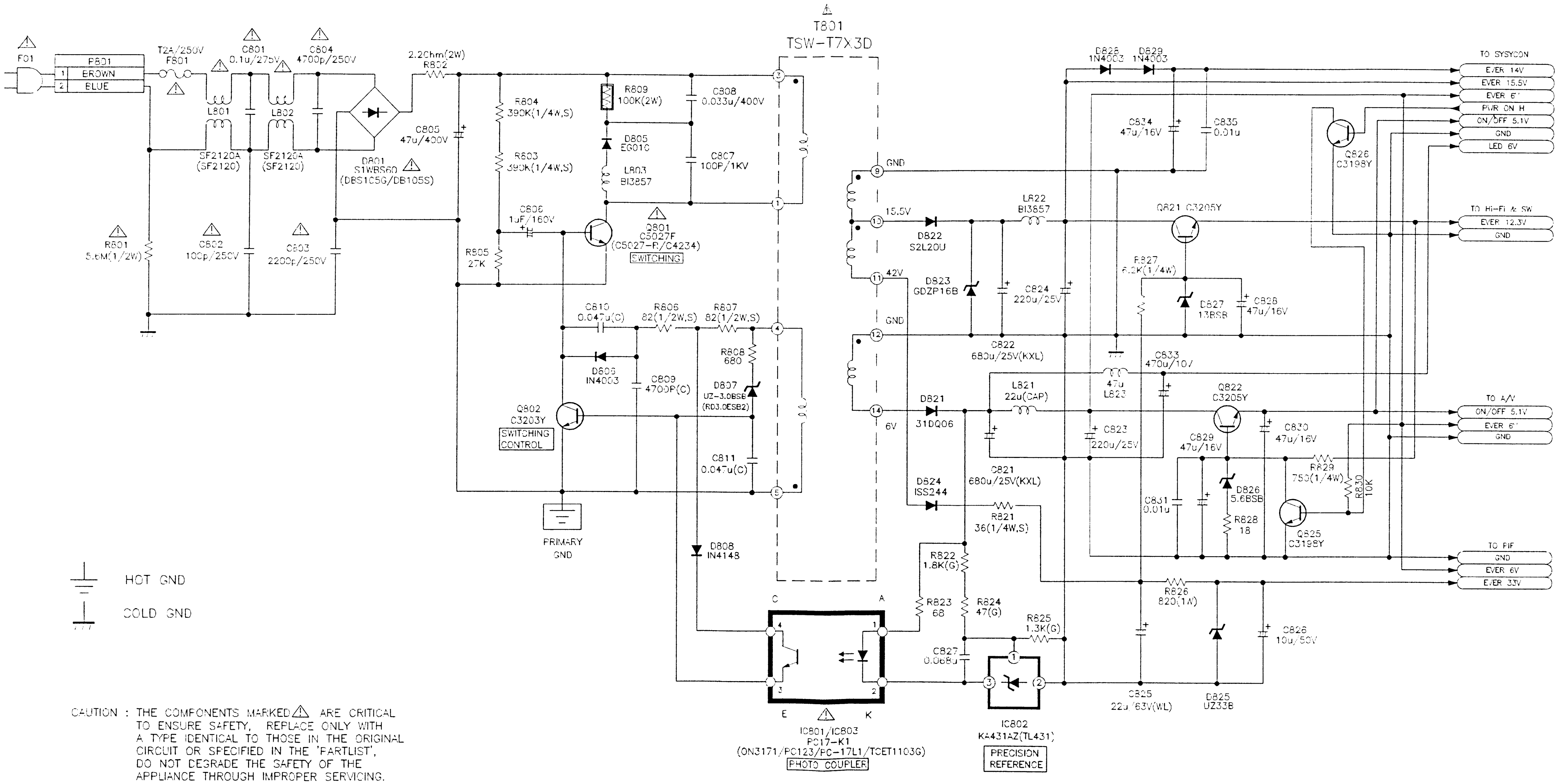
Model	EUROPE	Asia, South Africa, Australia
Jack Type	SCART Type	RCA Jack (Phone Jack)

CIRCUIT INFORMATION

1. INTERCONNECT WIRING DIAGRAM


MAIN PCB
P401
A FM-L 1
A FM COMM 2
A FM-R 3
SP-L 4
SP COMM 5
SP-R 6
GND 7
LP-R 8
LP COMM 9
LP-L 10
A-L
A-R
SP-L
SP-R
LP-R
LP-L
P801
1 AC(BROWN)
2 AC(BLUE)
AC INPUT
CAPSTAN/DRUM/LOADING MOTOR PCB
P501
CFG 1
C VCC 2
C 5V 3
C F/R 4
C I LIMIT 5
C M/T GND 6
C S GND 7
D/L VCC 8
C CTL 9
L/M CONTROL 10
D PG/FG 11
D CTL 12
CAPSTAN MOTOR
DRUM MOTOR
LOADING MOTOR
PATH JIG
P502
1 AUDIO
2 VIDEO
3 GND
4 CTL
5 V/H.SW
6 PB ENVE
7 P. ADJ.
8 E 5V
A/C HEAD
P201
GND 1
A HEAD(REC) 2
A HEAD(PB) 3
A HEAD(PB) 4
CTL HEAD(-) 5
AE HEAD 6
CTL HEAD(+) 7
AE HEAD 8
1 GND
2 A HEAD(REC)
3 A HEAD(PB)
4 A HEAD(PB)
5 CTL HEAD(-)
6 AE HEAD
7 CTL HEAD(+)
8 AE HEAD
AUDIO HEAD
CONTROL HEAD
AUDIO ERASE HEAD
FE HEAD
P202
FE HEAD 1
FE HEAD 2
1 FE HEAD
2 FE HEAD
FULL ERASE HEAD
CAM SW
SW501
CAM A 1
CAM B 2
CAM C 3
CAM D 4
D.GND 5
1 CAM A
2 CAM B
3 CAM C
4 CAM D
5 D.GND

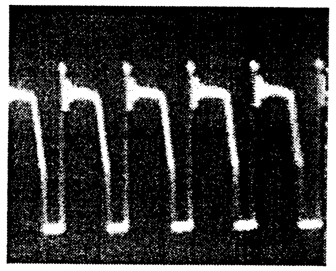
2. POWER CIRCUIT DIAGRAM


F01
P801
1 BROWN
2 BLUE
T2A/250V
F801
C801
0.1u/275V
C804
4700p/250V
L801
L802
SF2120A
(SF2120)
SF2120A
(SF2120)
D801
S1WBS60
(DBS1C5G/DB105S)
2.2Ohm(2W)
R802
C805
47u/400V
R804
390K(1/4W,S)
R803
390K(1/4W,S)
R809
100K(2W)
D805
EG01C
L803
BI3857
C808
0.033u/400V
C807
100P/1KV
T801
TSW-T7X3D
R801
5.6M(1/2W)
C802
100p/250V
C803
2200p/250V
C806
1uF/160V
R805
27K
Q801
C5027F
(C5027-R/C4234)
SWITCHING
C810
0.047u(C)
R806
82(1/2W,S)
R807
82(1/2W,S)
R808
680
D806
IN4003
C809
4700P(C)
D807
UZ-3.0BSB
(RD3.0ESB2)
Q802
C3203Y
SWITCHING CONTROL
C811
0.047u(C)
PRIMARY GND
D808
IN4148
HOT GND
COLD GND
GND
15.5V
42V
GND
6V
D822
S2L20U
D823
GDZP16B
L822
BI3857
C824
220u/25V
C822
680u/25V(KXL)
D821
31DQ06
L821
22u(CAP)
47u
L823
C833
470u/10V
C823
220u/25V
C821
680u/25V(KXL)
D824
ISS244
R821
36(1/4W,S)
R822
1.8K(G)
R823
68
R824
47(G)
R825
1.3K(G)
C827
0.068u
C
A
E
K
IC801/IC803
PC17-K1
(ON3171/PC123/PC-17L1/TCET1103G)
PHOTO COUPLER
IC802
KA431AZ(TL431)
PRECISION REFERENCE
D828
1N4003
D829
1N4003
C834
47u/16V
C835
0.01u
Q821 C3205Y
R827
6.2K(1/4W)
D827
13BSB
C828
47u/16V
Q822
C3205Y
C829
47u/16V
C830
47u/16V
C831
0.01u
D826
5.6BSB
R828
18
R829
750(1/4W)
R830
10K
Q825
C3198Y
Q826
C3198Y
R826
820(1W)
C825
22u/63V(WL)
D825
UZ33B
C826
10u/50V
TO SYSCON
EVER 14V
EVER 15.5V
EVER 6V
PWR ON H
ON/OFF 5.1V
GND
LED 6V
TO Hi-Fi & SW
EVER 12.3V
GND
TO A/V
ON/OFF 5.1V
EVER 6V
GND
TO PIF
GND
EVER 6V
EVER 33V

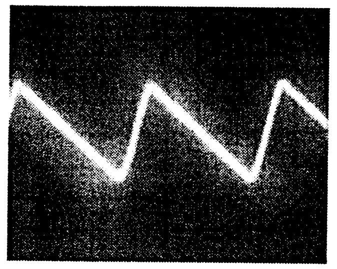
CAUTION : THE COMPONENTS MARKED⚠ ARE CRITICAL TO ENSURE SAFETY. REPLACE ONLY WITH A TYPE IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT OR SPECIFIED IN THE 'PARTLIST'. DO NOT DEGRADE THE SAFETY OF THE APPLIANCE THROUGH IMPROPER SERVICING.

POWER		MODE		
LOC.	PIN	EE	PLAY	REC.
IC802	1	2.46	2.46	2.46
	2	4.81	4.83	4.82
	3	0	0	0.01
IC801 /803	1	5.88	5.89	5.89
	2	4.81	4.83	4.83
	3	0.25	0.25	0.25
	4	3.1	3.1	3.1

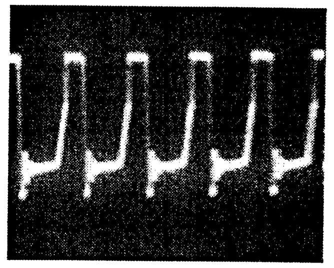
POWER		MODE		
LOC.	PIN	EE	PLAY	REC.
Q801	E	0	0	0
	B	-0.12	-0.11	-0.72
	C	323	323	323
Q802	E	0	0	0
	B	0.25	0.26	0.17
	C	0.12	0.11	0.17
Q821	E	12.58	12.6	12.6
	B	13.2	13.2	13.2
	C	15.6	15.36	15.4
Q822	E	5.2	5.19	5.2
	B	5.89	5.89	5.89
	C	5.97	5.97	5.96
Q825	E	0	0	0
	B	0	0	0
	C	5.89	5.89	5.89
Q826	E	0	0	0
	B	0.73	0.73	0.73
	C	0	0	0



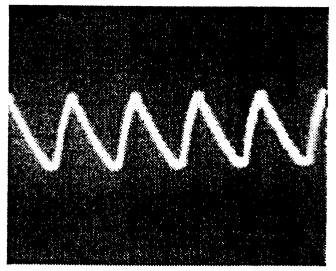
1. T801 PIN 1 X : 0.1KV DIV
Y : 5uS DIV



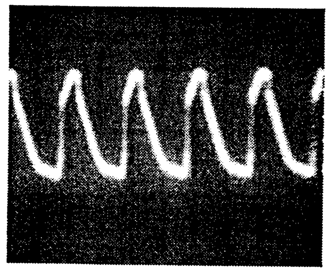
2. T801 PIN 3 X : 2V DIV
Y: 2mS DIV



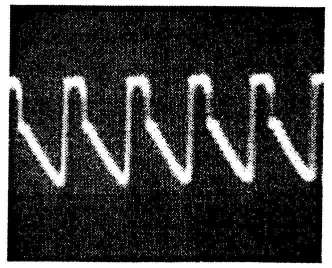
3. T801 PIN4 X: 5V DIV
Y: 5uS DIV



4. IC801 PIN3 X : 0.5V DIV
Y : 5uS DIV

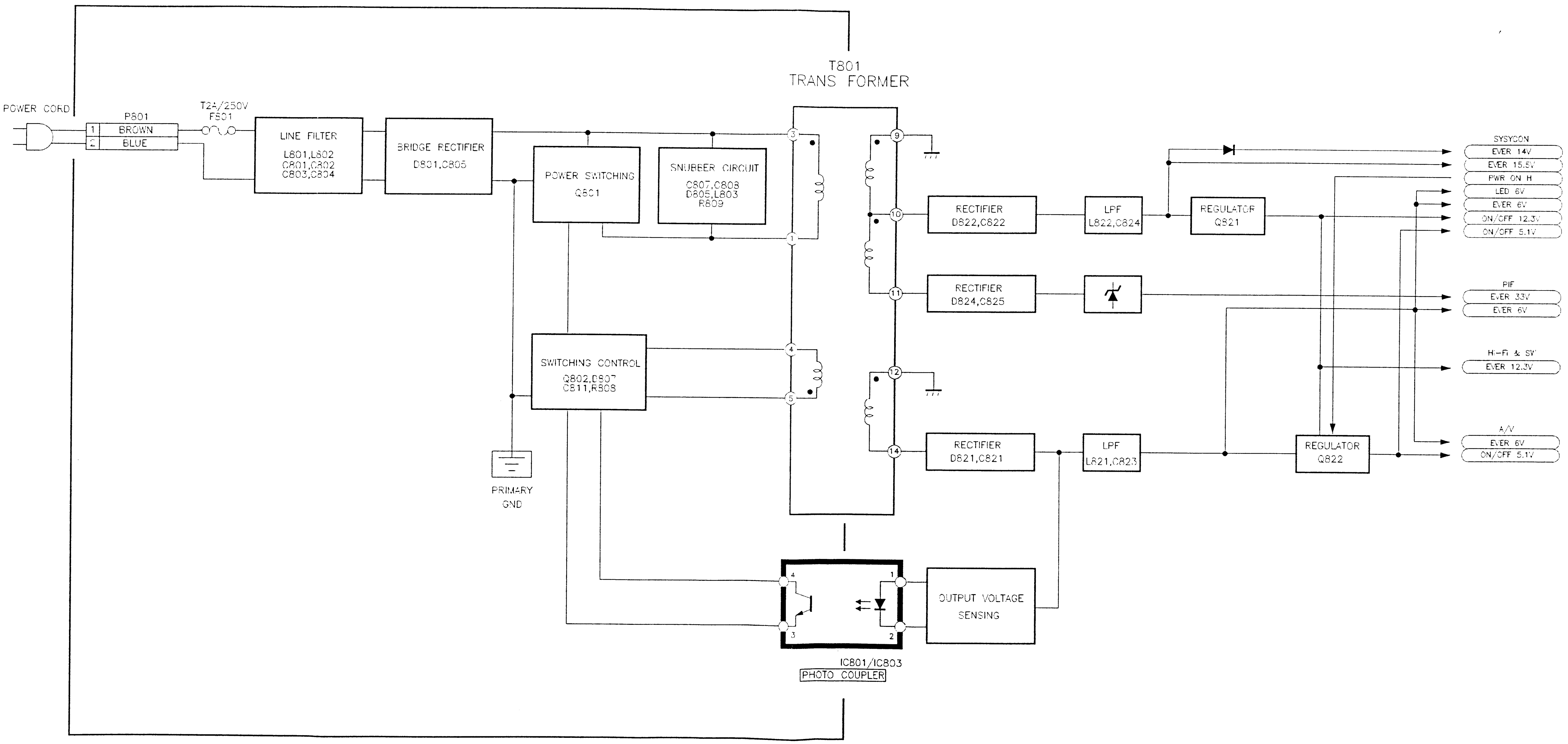


5. IC801 PIN 4 X: 2V DIV
Y : 5uS DIV

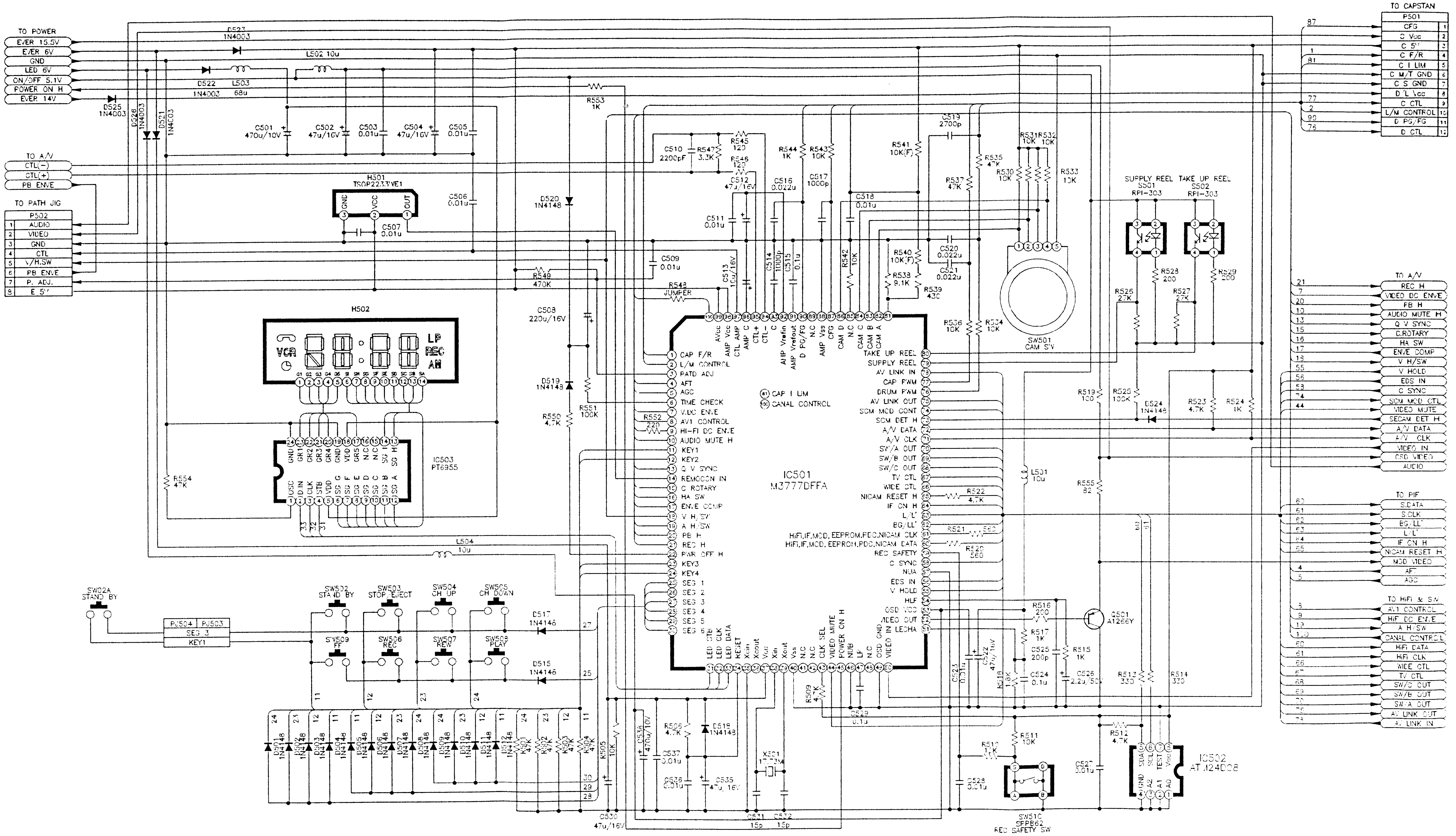


6. Q801 base X: 0.5V DIV
Y : 5uS DIV

3. POWER BLOCK DIAGRAM


T801
TRANS FORMER
POWER CORD
P801
1
BROWN
2
BLUE
T2A/250V
F801
LINE FILTER
L801,L802
C801,C802
C803,C804
BRIDGE RECTIFIER
D801,C805
POWER SWITCHING
Q801
SNUBBER CIRCUIT
C807,C808
D805,L803
R809
3
1
4
5
9
10
11
12
14
SWITCHING CONTROL
Q802,D807
C811,R808
PRIMARY
GND
RECTIFIER
D822,C822
LPF
L822,C824
REGULATOR
Q821
RECTIFIER
D824,C825
RECTIFIER
D821,C821
LPF
L821,C823
REGULATOR
Q822
OUTPUT VOLTAGE
SENSING
IC801/IC803
PHOTO COUPLER
SYSYCON
EVER 14V
EVER 15.5V
PWR ON H
LED 6V
EVER 6V
ON/OFF 12.3V
ON/OFF 5.1V
PIF
EVER 33V
EVER 6V
Hi-Fi & SV
EVER 12.3V
A/V
EVER 6V
ON/OFF 5.1V

4. SYSCON CIRCUIT DIAGRAM


TO POWER
EVER 15.5V
EVER 6V
GND
LED 6V
ON/OFF 5.1V
POWER ON H
EVER 14V
TO A/V
CTL(-)
CTL(+)
PB ENVE
TO PATH JIG
P502
AUDIO
VIDEO
GND
CTL
V/H.SW
PB ENVE
P. ADJ.
E 5V
H501 TSOP2233VE1
H502
IC503 PT6955
IC501 M37770FFA
TO CAPSTAN
P501
SW501 CAM SW
SUPPLY REEL S501 RPI-303
TAKE UP REEL S502 RPI-303
TO A/V
TO PIF
TO HiFi & S/W
SW02A STAND BY
SW502 STAND BY
SW503 STOP_EJECT
SW504 CH UP
SW505 CH DOWN
SW509 FF
SW506 REC
SW507 REW
SW508 PLAY
Q501 A1266Y
IC502 AT24C08
SW510 SFPB62 REC SAFETY SW
X501

*OPTION TABLE

SYSTEM OPTION	DIODE D501	DIODE D502	REMARKS
PAL-BG	X	X	
SECAM(France)	X	X	FRANCE
SECAM(Swiss)	X	O	SWITZERLAND
PAL-I	O	X	U.K
PAL-I I	O	O	S.IRELAND

PDC OPTION	DIODE D503
NOT APPLIED	X
APPLIED	O

TIME REFRESH OPTION	DIODE D504
REFRESH ON	X
REFRESH OFF	O

1/2 PERI OPTION	DIODE D505
2 PERI	X
1 PERI	O

FNT A/V OPTION	DIODE D506
NOT APPLIED	X
APPLIED	O

GEMSTAR CODE OPTION	DIODE D507
SV VP	X
G-CODE	O

SHOWVIEW ENABLING	DIODE D508
APPLIED	X
NOT APPLIED	O

HEAD SPEED OPTION	DIODE D509	DIODE D510	REMARKS
40/40 SP LP	X	X	Central Europe / Australia
57/75 SP	X	O	Central Europe
PAL 4HD	O	X	PAL 4H/H Hi-Fi
40/40 SP LP	X	X	U.K/S.Ireland(PAL-I)
PAL 4HD	X	O	U.K/S.Ireland(PAL-I)
40/40 SP	O	X	France(SECAM)
SECAM 4HD	O	O	France(SECAM)

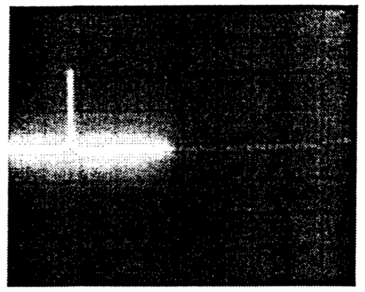
NEW ZEALAND OPTION	DIODE D511
AUSTRALIA	X
NEW ZEALAND	O

FINLAND OPTION	DIODE D512
NOT APPLIED	X
APPLIED	O

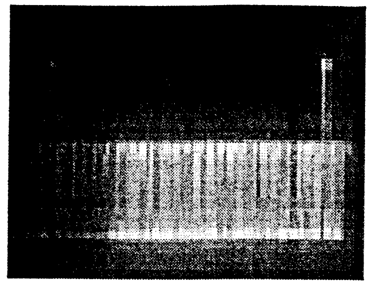
SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC501	1	0	0	0
	2	2.63	2.61	2.61
	3	4.64	4.97	4.96
	4	2.3	0	2.2
	5	1.8	0	2.1
	6	4.74	5.04	5.1
	7	1.4	2.28	1.13
	8	0.01	4.73	0.01
	9	1.9	1.85	0.14
	10	0.04	0.01	0.01
	11	0	0	0
	12	1.63	1.58	1.57
	13	5.2	0.01	0.01
	14	5.2	5.2	5.18
	15	2.6	2.6	2.6
	16	5.2	5.2	5.2
	17	2.82	0	0
	18	0	2.61	2.6
	19	2.61	0	2.6
	20	0	5.23	0
	21	0	0	5.13
	22	0	0	0
	23	0.78	0.79	0.8
	24	0.78	0.79	0.8
	25	0.87	0.01	0.87
	26	0.87	0.87	0.87
	27	0.87	0.87	0.87
	28	0.87	0.87	0.87
	29	0.87	0.87	0.87
	30	0.87	0.87	0.01
	31	1.41	0.03	1.4
	32	5.05	0.05	0.07
	33	0.76	0.02	0.77
	34	5.25	5.25	5.23
	35	000		
	36	1.54	1.52	1.53
	37	5.2	5.25	5.1
	38	2.32	2.32	2.31
	39	0	0.01	2.6
	40	0	0.01	0.11
	41	0	0	0.12
	42	5.23	5.23	5.1
	43	5.25	5.23	5.23
	44	1.8	1.9	1.7
	45	5	5	4.9
	46	0.01	0	0.12
	47	1.8	1.86	1.7
	48	0.01	0	0.12
	49	0.02	0	0
	50	1.9	1.97	1.7
	51	3.3	3.3	3.2
	52	1.9	1.97	2.1
	53	5.25	5.25	5.25
	54	2.23	2.23	2.23
	55	1.92	1.97	1.75
	56	1.9	1.98	1.87
	57	0	0	0
	58	4.48	0.33	4.49
	59	5.21	5.21	0
	60	4.82	4.8	4.84
	61	4.96	4.8	4.91
	62	0.01	0.03	0
	63	0	0	0
	64	5.18	0	5.18
	65	5.18	0.01	5.18
	66	0.04	0.01	0.12
	67	0	5.2	0
	68	0	0.01	0
	69	0	0	0.12
	70	5.17	5.17	5.15
	71	5.04	5.01	5.01
	72	5.01	5.01	5.01
	73	0.12	0.14	0.08
	74	0.3	2.58	0.09
	75	0.03	0	0.09
	76	0	2.5	2.57
	77	0	2.6	2.72
	78	1.33	0	0.09
	79	0	0··· 5	0··· 5
	80	5.02	0··· 5	0··· 5
	81	1.6	0.01	1.58
	82	5.21	0	0
	83	4.55	5.01	5.01
	84	5.01	5.01	5.19
	85	0.01	0.01	0
	86	5.21	0.01	0
	87	4.23	2.49	2.48
	88	0	0.01	0
	89	0	0.01	1.51
	90	0.01	1.28	1.28
	91	2.58	2.58	2.58
	92	2.6	2.6	2.6
	93	0	0	0
	94	2.6	2.6	2.28
	95	2.56	2.56	2.89
	96	2.56	2.56	2.56
	97	2.57	2.59	2.57
	98	5.01	5.01	5.01
	99	5.22	5.21	5.2
	100	0	0.01	0

SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC502	1	0	0	0
	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	4.96	4.85	4.9
	6	4.96	4.88	4.9
	7	0	0	0
	8	5.22	5.22	5.2

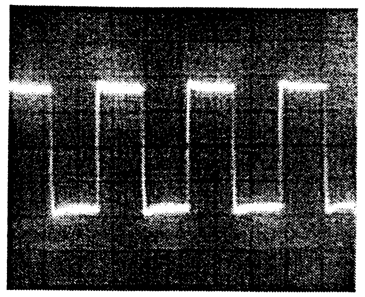
SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
Q501	E	2.82	3.06	2.81
	B	2.12	2.35	2.11
	C	0.01	0.01	0.02



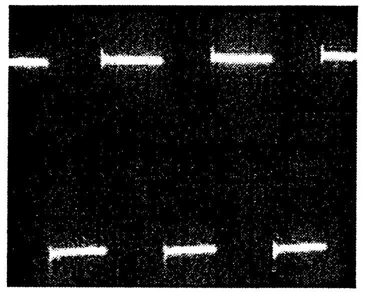
1. IC501 PIN97 X: 1V DIV
CTL AMP OUT Y : 5mS DIV



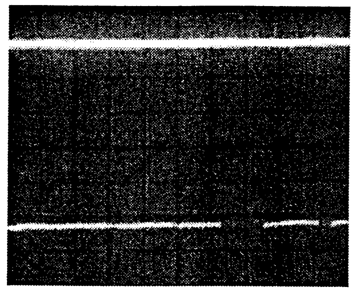
2. IC501 PIN 89 X : 0.5V DIV
DRUM FG Y :0.5ms DIV



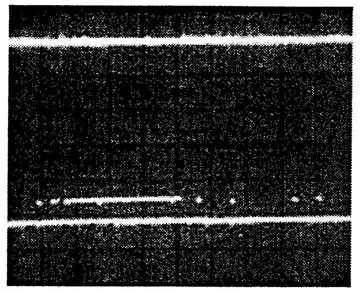
3. IC501 PIN 87 X: 1V DIV
CAPSTAN FG Y : 0.5mS DIV



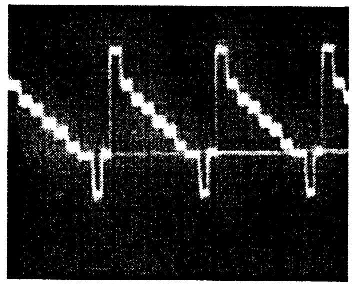
4. IC501 PIN 77 X : 1V DIV
CAPSTAN PWM Y : 5uS DIV



5. IC501 PIN61 X: 1V DIV
SERIAL CLK Y: 0.1mS DIV

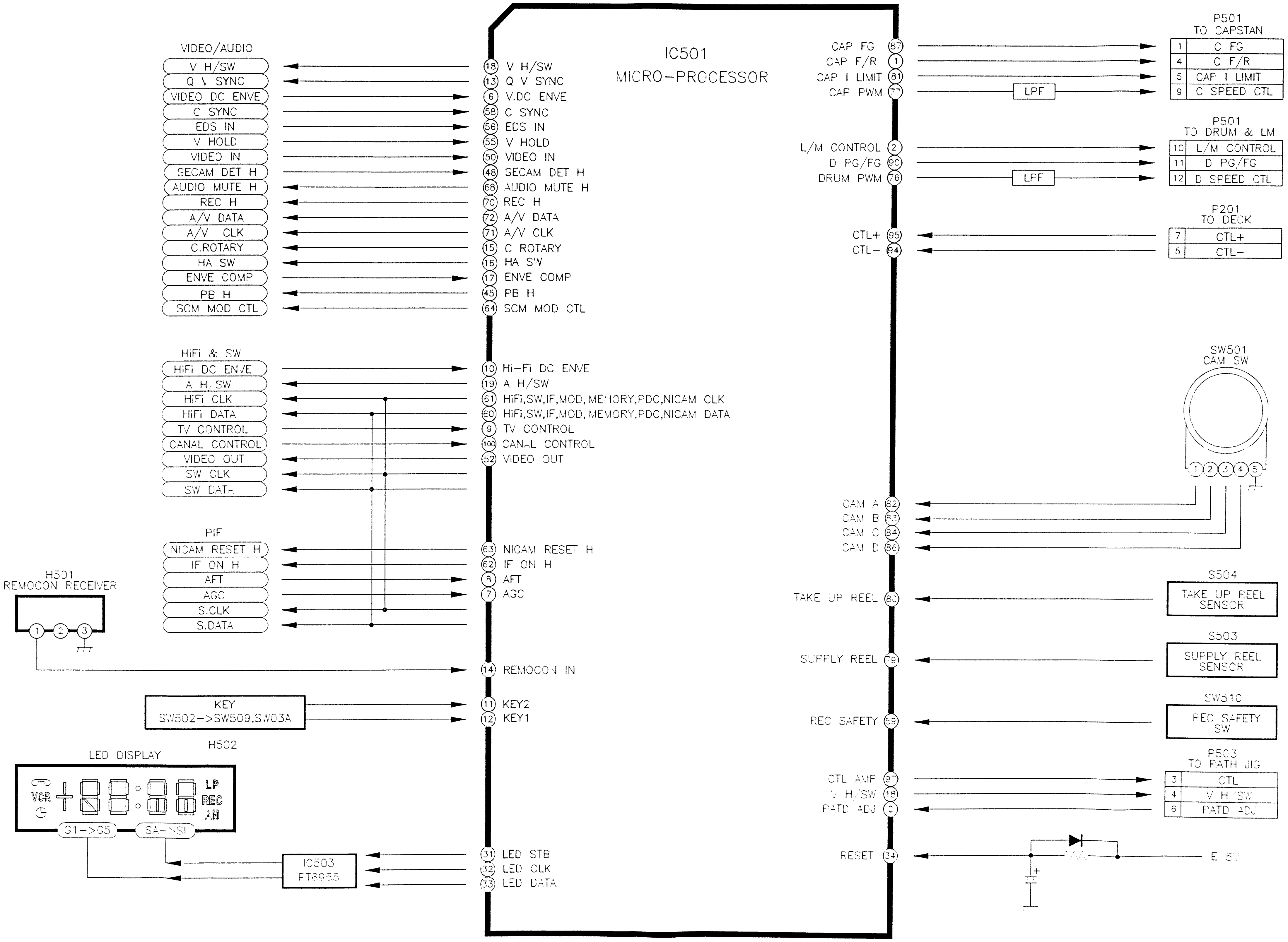


6. IC501 PIN60 X : 1V DIV
SERIAL DATA Y : 0.1mS DIV

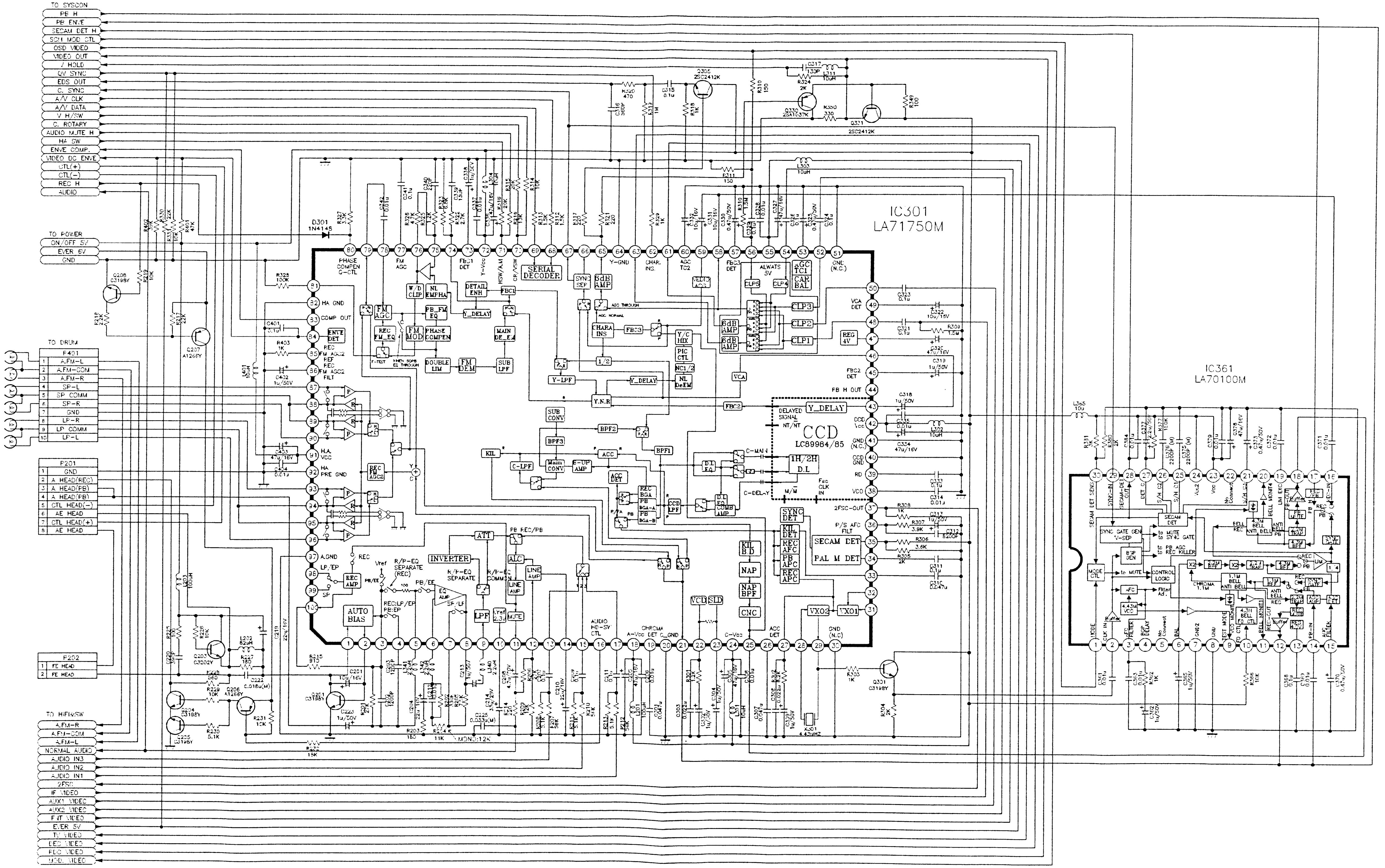


7. IC501 PIN 56 X : 0.5V DIV
EDS IN Y: 20uS DIV

5. SERVO & SYSCON BLOCK DIAGRAM


IC501
MICRO-PROCESSOR
VIDEO/AUDIO
V H/SW
Q V SYNC
VIDEO DC ENVE
C SYNC
EDS IN
V HOLD
VIDEO IN
SECAM DET H
AUDIO MUTE H
REC H
A/V DATA
A/V CLK
C.ROTARY
HA SW
ENVE COMP
PB H
SCM MOD CTL
(18) V H/SW
(13) Q V SYNC
(6) V.DC ENVE
(58) C SYNC
(56) EDS IN
(55) V HOLD
(50) VIDEO IN
(48) SECAM DET H
(68) AUDIO MUTE H
(70) REC H
(72) A/V DATA
(71) A/V CLK
(15) C ROTARY
(16) HA SW
(17) ENVE COMP
(45) PB H
(64) SCM MOD CTL
HiFi & SW
HiFi DC ENVE
A H SW
HiFi CLK
HiFi DATA
TV CONTROL
CANAL CONTROL
VIDEO OUT
SW CLK
SW DATA
(10) Hi-Fi DC ENVE
(19) A H/SW
(61) HiFi,SW,IF,MOD,MEMORY,PDC,NICAM CLK
(60) HiFi,SW,IF,MOD,MEMORY,PDC,NICAM DATA
(9) TV CONTROL
(100) CAN-L CONTROL
(52) VIDEO OUT
PIF
NICAM RESET H
IF ON H
AFT
AGC
S.CLK
S.DATA
(63) NICAM RESET H
(62) IF ON H
(8) AFT
(7) AGC
H501
REMOCON RECEIVER
1
2
3
(14) REMOCON IN
KEY
SW502->SW509,SW03A
(11) KEY2
(12) KEY1
H502
LED DISPLAY
VCR
LP
REC
AH
G1->G5
SA->SI
IC503
PT6955
(31) LED STB
(32) LED CLK
(33) LED DATA
CAP FG (87)
CAP F/R (1)
CAP I LIMIT (81)
CAP PWM (77)
LPF
P501
TO CAPSTAN
1 C FG
4 C F/R
5 CAP I LIMIT
9 C SPEED CTL
L/M CONTROL (2)
D PG/FG (90)
DRUM PWM (76)
LPF
P501
TO DRUM & LM
10 L/M CONTROL
11 D PG/FG
12 D SPEED CTL
CTL+ (95)
CTL- (94)
P201
TO DECK
7 CTL+
5 CTL-
SW501
CAM SW
1 2 3 4 5
CAM A (82)
CAM B (83)
CAM C (84)
CAM D (86)
TAKE UP REEL (80)
S504
TAKE UP REEL SENSOR
SUPPLY REEL (79)
S503
SUPPLY REEL SENSOR
REC SAFETY (59)
SW510
REC SAFETY SW
CTL AMP (97)
V H/SW (18)
PATD ADJ (2)
P503
TO PATH JIG
3 CTL
4 V H/SW
6 PATD ADJ
RESET (34)
+
E 5V

6. AV & SECAM COLOR CIRCUIT DIAGRAM

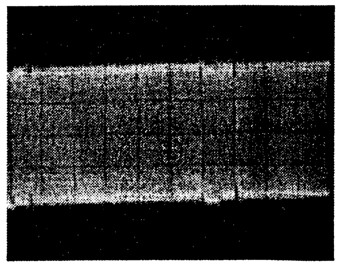

TO SYSCON
PB H
PB ENVE
SECAM DET H
SCH MOD CTL
OSD VIDEO
VIDEO OUT
V HOLD
CV SYNC
EDS OUT
C. SYNC
A/V CLK
A/V DATA
V H/SW
C. ROTARY
AUDIO MUTE H
HA SW
ENVE COMP.
VIDEO DC ENVE
CTL(+)
CTL(-)
REC H
AUDIO
TO POWER
ON/OFF 5V
EVER 5V
GND
TO DRUM
F401
A.FM-L
A.FM-COM
A.FM-R
SP-L
SP COMM
SP-R
GND
LP-R
LP COMM
LP-L
P201
GND
A HEAD(REC)
A HEAD(PB)
A HEAD(PB)
CTL HEAD(-)
AE HEAD
CTL HEAD(+)
AE HEAD
P202
FE HEAD
FE HEAD
TO HIFI/SW
A.FM-R
A.FM-COM
A.FM-L
NORMAL AUDIO
AUDIO IN3
AUDIO IN2
AUDIO IN1
2FSC
IF VIDEO
AUX1 VIDEO
AUX2 VIDEO
F/T VIDEO
EVER 5V
TV VIDEO
REC VIDEO
PLG VIDEO
MOD. VIDEO
IC301
LA71750M
IC361
LA70100M
CCD
LC89984/85
D301
1N4148
Q305
2SC2412K
Q330
2SA1037K
Q331
2SC2412K
Q301
C3198Y
SERIAL DECODER
INVERTER
AUTO BIAS
SECAM DET
PAL M DET
Y_DELAY
1H/2H D.L
FM DEM
FM MOD

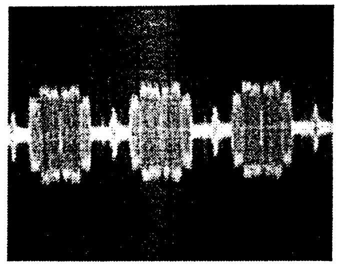
A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
IC301	1	5.09	0.1	0.78
	2	0.03	0.03	0.84
	3	2.29	2.28	2.55
	4	0.33	0.17	0.62
	5	2.28	2.27	2.49
	6	2.29	2.28	2.27
	7	2.28	2.28	2.28
	8	2.28	2.28	2.28
	9	2.28	2.28	2.25
	10	2.29	2.28	2.28
	11	2.4	2.4	2.4
	12	0.02	0.02	0.02
	13	2.29	2.28	2.27
	14	0.05	0.04	0.04
	15	2.29	2.28	2.27
	16	5.16	0.18	5.15
	17	2.29	2.28	2.27
	18	5.15	5.121	5.14
	19	4.21	4.16	4.13
	20	0.02	0.02	0.02
	21	3.32	1.99	3.32
	22	3.2	3.17	3.2
	23	3.2	3.2	3.2
	24	5.16	5.13	5.16
	25	0.16	3.3	0.15
	26	1.42	1.67	1.42
	27	2.1	2.1	2.04
	28	4.2	4.16	4.17
	29	2.79	2.74	2.81
	30	0.02	0	0.02
	31	0	0	0
	32	5.07	4.91	4.97
	33	2.12	2.03	2.11
	34	1.57	1.57	1.57
	35	2.1	2.09	2.1
	36	3.48	3.45	3.59
	37	1.69	1.66	1.72
	38	2.04	2.01	2.08
	39	9.5	9.47	9.48
	40	0.02	0.02	0.02
	41	0.02	0.02	0.02
	42	5.16	5.13	5.15
	43	2.23	2.44	2.23
	44	0.06	4.21	0.04
	45	2.27	2.28	2.29
	46	2.42	2.67	2.43
	47	4.15	4.15	4.16
	48	1.89	1.89	1.88
	49	2.94	3.16	2.94
	50	1.95	1.95	1.93
	51	0.02	0.02	0.02
	52	1.94	1.95	1.92
	53	1.35	2.34	2.18
	54	1.94	1.95	1.92
	55	5.17	5.17	5.14
	56	2.17	2.31	2.16
	57	2	2.15	2
	58	1.98	1.98	1.98
	59	2.93	2.95	2.92
	60	1.43	1.58	1.43
	61	1.57	1.86	1.58
	62	0	0.07	0.07

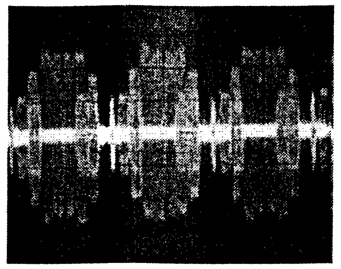
A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
	63	1.19	1.02	1.21
	64	0.02	0.02	0.02
	65	0.85	1.92	0.86
	66	0.06	1.45	0.07
	67	4.49	0.35	4.49
	68	5.05	5.07	5.05
	69	5	5.01	5.01
	70	0.01	2.61	2.6
	71	1.73	1.68	1.67
	72	5.12	5.1	5.11
	73	2.2	2.06	2.2
	74	2.3	2.6	2.31
	75	2.22	0.69	2.23
	76	2.22	0.76	2.23
	77	1.7	1.52	1.6
	78	2.66	3.37	2.67
	79	2.02	1.96	2.52
	80	0.95	0.96	4.53
	81	1.15	1.14	1.15
	82	0.02	0.02	0.02
	83	0.45	1.35	1.28
	84	1.39	2.26	1.13
	85	0.39	0.02	0.66
	86	0.2	0.27	1.63
	87	1.93	1.96	4.35
	88	1.93	1.95	4.33
	89	1.93	1.95	4.33
	90	1.93	1.96	4.35
	91	5.14	5.12	5.12
	92	0.02	0.02	0.02
	93	1.94	0.74	0.73
	94	1.94	0.74	0.73
	95	1.94	0.74	0.73
	96	1.95	0.74	0.73
	97	0	0.02	0.02
	98	2.29	2.29	2.43
	99	2.29	2.29	2.43
	100	2.29	2.29	2.56

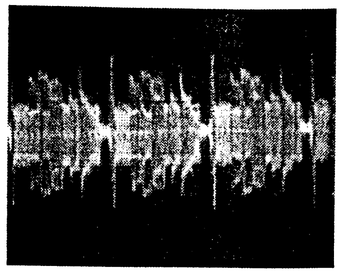
A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
Q201	E	0.02	0.02	0.02
	B	0.03	0.03	0.84
	C	5.11	0.1	0.77
Q203	E	3.51	0.1	0.89
	B	3.43	0.04	1.64
	C	5.04	0.04	4.83
Q204	E	0	0.02	-14.24
	B	0	0.7	-19.43
	C	5.11	0.03	1.05
Q205	E	0.14	0.02	-14.15
	B	0	0.71	-18.87
	C	0.02	0.02	0.02
Q206	E	5.16	5.16	5.16
	B	5.16	4.46	5.15
	C	1.81	5.12	-19.1
Q207	E	5.97	5.97	5.91
	B	5.96	5.96	5.11
	C	5.34	0.02	5.07
Q208	E	0	0	0
	B	0	0	0.68
	C	5.96	5.96	0.02
Q301	E	2.14	2.13	2.15
	B	2.78	2.76	2.76
	C	5.16	5.15	5.15
Q305	E	1.4	1.32	1.4
	B	2.03	2.3	2.06
	C	5.17	5.17	5.16
Q330	E	2.73	2.01	2.73
	B	2.05	2.67	2.05
	C	0	0.12	0
Q331	E	2.06	2.32	2.06
	B	2.73	2.98	2.72
	C	5.17	5.17	5.16

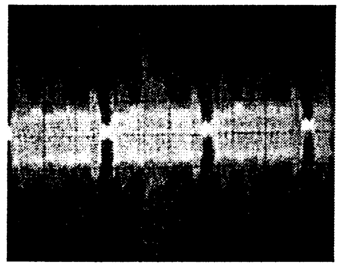
SECAM COLOR		MODE		
LOC.	PIN	EE	PLAY	REC.
IC361	1	2.58	2.58	2.55
	2	2.39	2.4	2.4
	3	3.6	3.59	3.63
	4	2.67	2.66	2.64
	5	0.02	0	0.01
	6	0.38	3.72	0.49
	7	0.02	0.02	0.03
	8	0.02	0.02	0.03
	9	3.13	3.13	3.12
	10	4.83	4.83	4.79
	11	1.96	1.95	2
	12	2.2	1.99	2.28
	13	3.98	3.98	3.99
	14	2.61	2.61	2.58
	15	3.1	2.6	3.13
	16	3.18	3.18	3.19
	17	0	5.23	0
	18	0.14	2.1	0.15
	19	2.27	2.27	2.3
	20	1.9	2.95	1.93
	21	2.04	2.32	2.03
	22	0.9	0	0.01
	23	5.15	5.14	5.13
	24	5.15	5.14	5.13
	25	2.26	2.21	2.27
	26	2.26	2.21	2.24
	27	4.85	4.9	4.84
	28	4.66	4.65	4.64
	29	0.39	0.35	0.39
	30	1.83	1.83	1.83

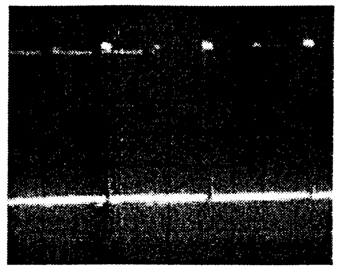

1. IC301 PIN78 X: 0.1V DIV
RECY-FM Y : 10uS DIV

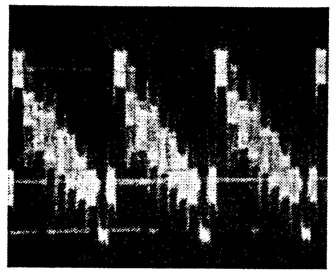

2. IC301 PIN21 X: 0.1V DIV
REC COLOR(PAL) Y:20uS DIV

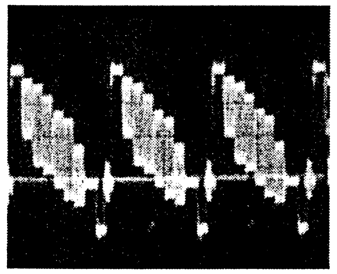

3. IC301 PIN25 X: 0.1V DIV
PB COLOR(PAL) Y: 20uS DIV

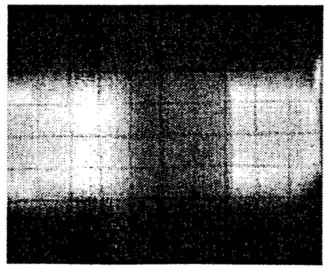

4. IC301 PIN25 X: 0.1V DIV
REC COLOR (SCM)Y :20uS DIV

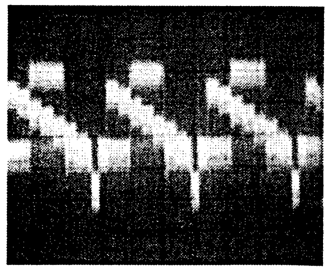

5. IC301 PIN21 X: 0.1V DIV
PB COLOR(SCM) Y : 20uS DIV

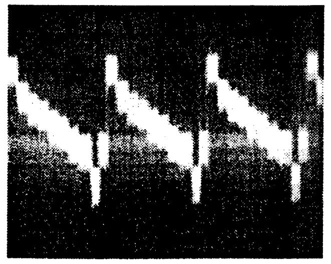

6. IC301 PIN3 X : 1V DIV
C.SYNC Y : 20uS DIV

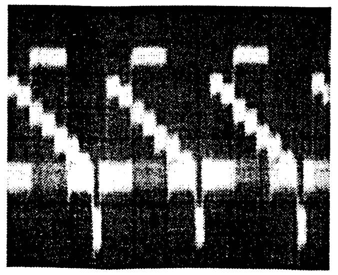

7. IC301 PIN58 X: 0.2V DIV
REC SECAM Y: 20uS DIV

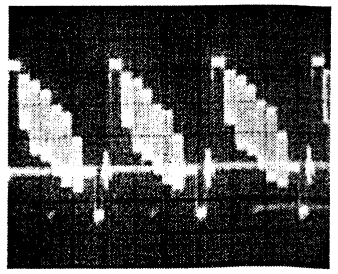

8. IC301 PIN50 X: 0.2V DIV
VIDEO INPUT(REC) Y : 20uS DIV


9. IC301 PIN79 X : 0.1V DIV
PB ENVE Y : 2mS DIV

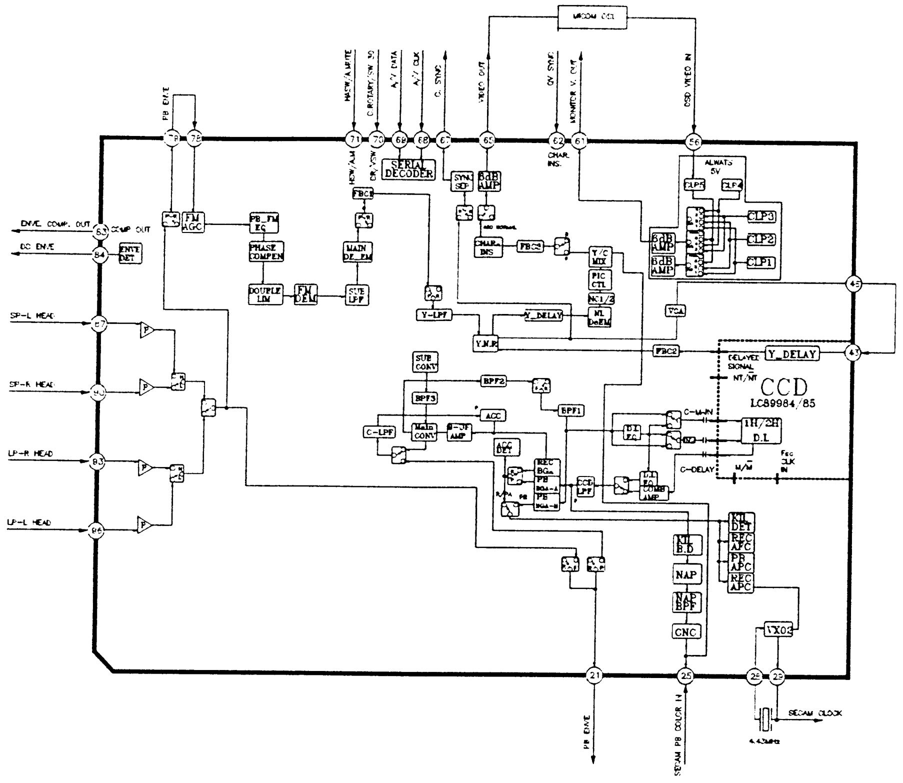

10. IC301 PIN43 X : 0.1V DIV
Y-DLY OUT(PB) Y 20uS DIV


11. IC301 PIN43 X: 0.1V DIV
Y-DLY OUT(REC) Y : 20us DIV

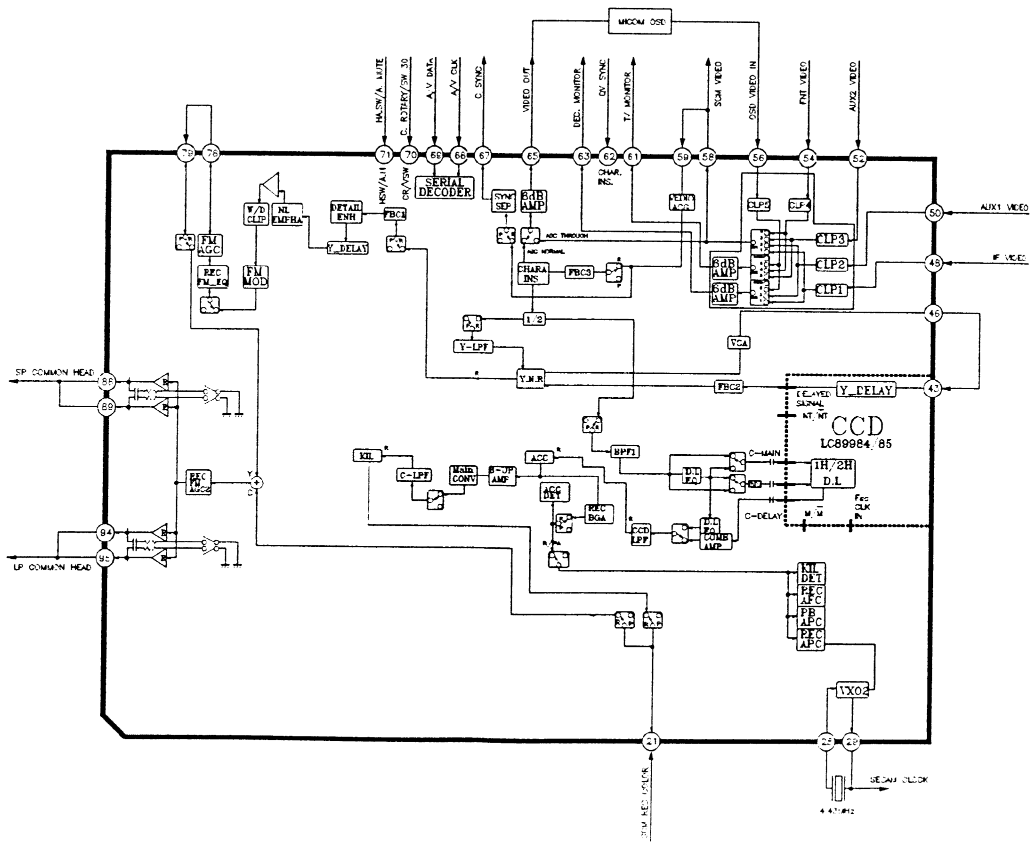

12. IC301 PIN74 X: 0.1V DIV
DEEMPHA OUT (PB) Y:20uS DIV


13. IC301 PIN65 X: 0.5V DIV
VIDEO OUT(REC) Y : 20uS DIV

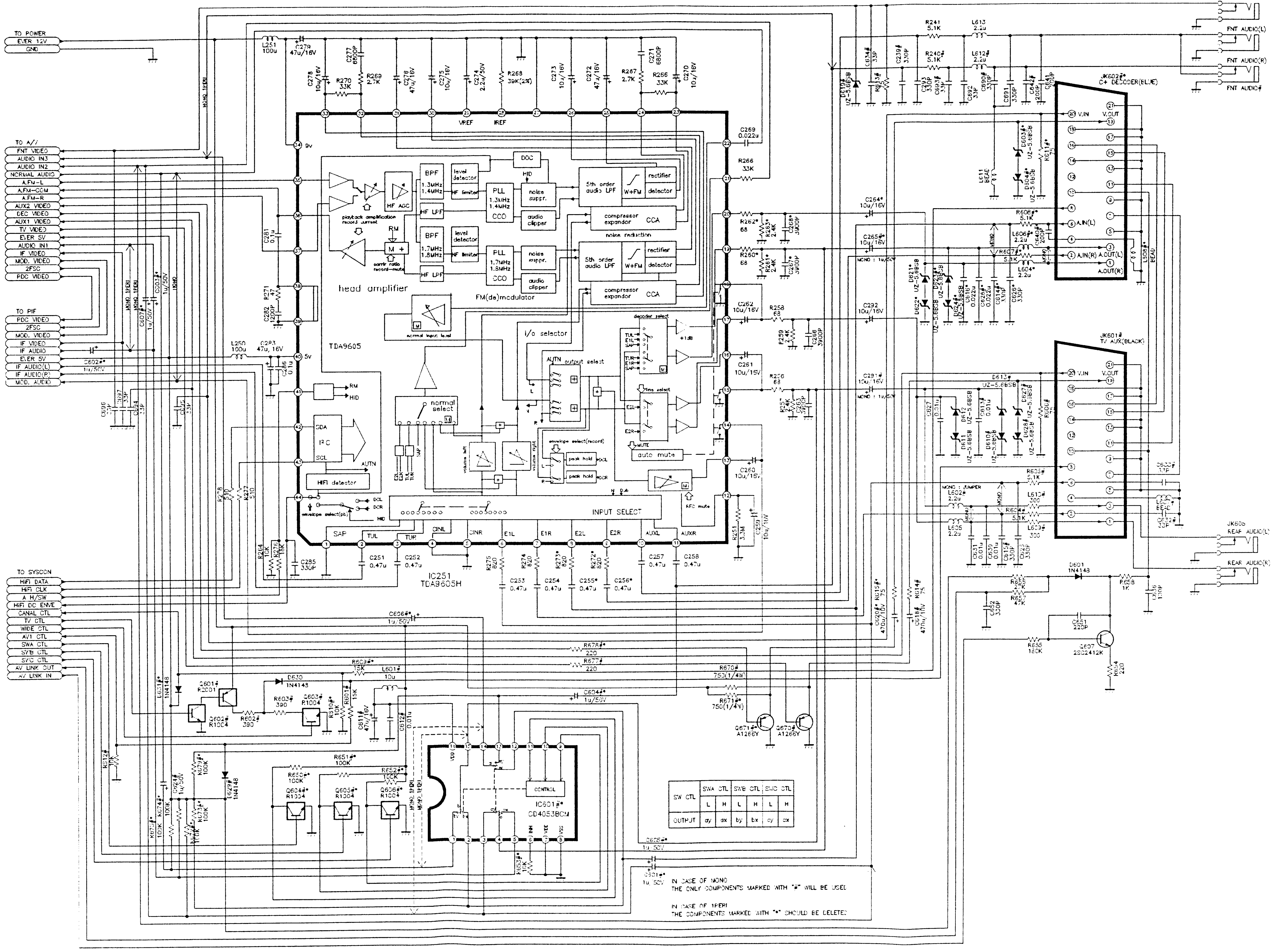
7-1. VIDEO PLAYBACK PATH FOR PAL


MICOM OSD
PB ENVE
HASW/A.MUTE
C.ROTARY/SW 30
A/V DATA
A/V CLK
C. SYNC
VIDEO OUT
QV SYNC
MONITOR V. OUT
OSD VIDEO IN
HSW/A.M
CR/VSW
SERIAL DECODER
CHAR. INS.
ALWAYS 5V
CLP5
CLP4
CLP3
CLP2
CLP1
6dB AMP
SYNC SEP
FBC1
FBC2
FBC3
ENVE COMP. OUT
COMP OUT
DC ENVE
ENVE DET
FM AGC
PB_FM EQ
PHASE COMPEN
DOUBLE LIM
FM DEM
SUB LPF
MAIN DE_FM
CHARA INS
Y/C MIX
PIC CTL
NC1/2
NL DeEM
Y-LPF
Y_DELAY
Y.N.R
VCA
SP-L HEAD
SP-R HEAD
LP-R HEAD
LP-L HEAD
SUB CONV
BPF1
BPF2
BPF3
ACC
C-LPF
Main CONV
B-UF AMP
ACC DET
REC BGA
PB BGA-A
PB BGA-N
CCD LPF
D.L EQ
COMB AMP
DELAYED SIGNAL
NT/NT
CCD
LC89984/85
C-MAIN
1H/2H D.L
C-DELAY
M/M
Fsc CLK IN
KIL DET
REC APC
PB APC
KIL B.D
NAP
NAP BPF
CNC
VXO2
PB ENVE
SECAM PB COLOR IN
SECAM CLOCK
4.43MHz
78
76
71
70
69
68
67
65
62
61
56
83
84
87
90
83
86
45
43
21
25
28
29

7-2. VIDEO RECORD PATH FOR PAL


MICOM OSD
HA.SW/A. MUTE
C. ROTARY/SW 30
A/V DATA
A/V CLK
C SYNC
VIDEO OUT
DEC. MONITOR
QV SYNC
T/ MONITOR
SCM VIDEO
OSD VIDEO IN
FNT VIDEO
AUX2 VIDEO
HSW/A.M
CR/VSW
SERIAL DECODER
CHAR. INS.
SYNC SEP
6dB AMP
AGC THROUGH
AGC NORMAL
FEINC ACC
CLP5
CLP4
CLP3
CLP2
CLP1
AUX1 VIDEO
IF VIDEO
W/D CLIP
NL EMPHA
DETAIL ENH
FBC1
FBC2
FBC3
Y_DELAY
FM AGC
REC FM_EQ
FM MOD
CHARA INS
1/2
Y-LPF
Y.N.R
VCA
SP COMMON HEAD
LP COMMON HEAD
REC FM AGC2
KIL
C-LPF
Main CONV
B-UF AMP
ACC
ACC DET
REC BGA
CCD LPF
BPF1
D.L EQ
COMB AMP
DELAYED SIGNAL
NT/NT
CCD
LC89984/85
C-MAIN
1H/2H D.L
C-DELAY
M/M
Fsc CLK IN
KIL DET
REC APC
PB APC
VXO2
SCM REC COLOR
SECAM CLOCK
4.43MHz
79
76
71
70
69
66
67
65
63
62
61
59
58
56
54
52
50
48
46
43
88
89
94
95
21
25
28

8. HIFI & SW CIRCUIT DIAGRAM


TO POWER
EVER 12V
GND
TO A//
FNT VIDEO
AUDIO IN3
AUDIO IN2
NORMAL AUDIO
A.FM-L
A.FM-COM
A.FM-R
AUX2 VIDEO
DEC VIDEO
AUX1 VIDEO
TV VIDEO
EVER 5V
AUDIO IN1
IF VIDEO
MOD. VIDEO
2FSC
PDC VIDEO
TO PIF
PDC VIDEO
2FSC
MOD. VIDEO
IF VIDEO
IF AUDIO
EVER 5V
IF AUDIO(L)
IF AUDIO(R)
MOD. AUDIO
TO SYSCON
HIFI DATA
HIFI CLK
A H/SW
HIFI DC ENVE
CANAL CTL
TV CTL
WIDE CTL
AV1 CTL
SWA CTL
SW/B CTL
SWC CTL
AV LINK OUT
AV LINK IN
IC251
TDA9605H
TDA9605
head amplifier
FM(de)modulator
BPF 1.3MHz 1.4MHz
BPF 1.7MHz 1.8MHz
level detector
HF limiter
PLL 1.3MHz 1.4MHz
PLL 1.7MHz 1.8MHz
CCO
noise suppr.
audio clipper
5th order audio LPF
W+FM
rectifier
detector
compressor expandor
CCA
noise reduction
DOC
HID
HF AGC
HF LPF
playback amplification record current
RM
carrier ratio record-mute
normal input level
i/o selector
decoder select
output select
line select
normal select
envelope select(record)
peak hold
auto mute
MUTE
KFC mute
INPUT SELECT
SDA
I²C
SCL
AUTN
HIFI detector
envelope select(pb)
9V
5V
VREF
IREF
SAP
TUL
TUR
CINL
CINR
E1L
E1R
E2L
E2R
AUXL
AUXR
IC601#*
CD4053BCM
CONTROL
Q601#* R2001
Q602#* R1004
Q603#* R1004
Q604#* R1304
Q605#* R1304
Q606#* R1004
Q607 2SC2412K
Q670# A1266Y
Q671#* A1266Y
D630 1N4148
D629# 1N4148
D601 1N4148
JK606# FNT VIDEO
FNT AUDIO(L)
FNT AUDIO(R)
FNT AUDIO#
JK602#* C+ DECODER(BLUE)
JK601# TV AUX(BLACK)
V.IN
V.OUT
A.IN(L)
A.IN(R)
A.OUT(L)
A.OUT(R)
JK605 REAR AUDIO(L)
REAR AUDIO(R)
MONO : JUMPER
UZ-5.6BSB
BEAD

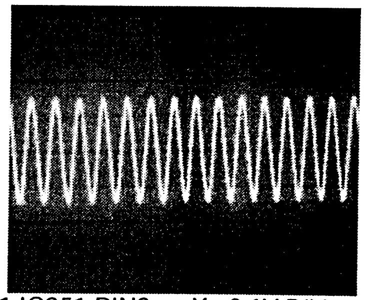
SW CTL	SWA CTL		SWB CTL		SWC CTL	
	L	H	L	H	L	H
OUTPUT	ay	ax	by	bx	cy	cx

IN CASE OF MONO
THE ONLY COMPONENTS MARKED WITH "#" WILL BE USED

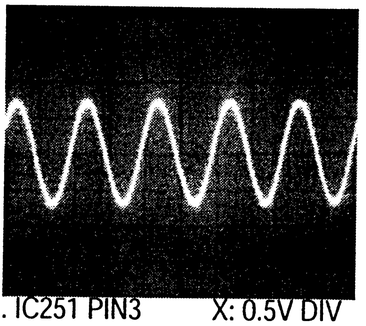
IN CASE OF 1PERI
THE COMPONENTS MARKED WITH "*" SHOULD BE DELETED

HIFI&SW		MODE		
LOC.	PIN	EE	PLAY	REC.
IC251	1	0.00	0.00	0.00
	2	3.90	3.90	3.90
	3	3.90	3.90	3.90
	4	0.00	0.00	0.00
	5	0.00	0.00	0.00
	6	3.90	3.91	3.91
	7	3.90	3.90	3.90
	8	3.90	3.90	3.90
	9	3.90	3.90	3.90
	10	3.90	3.90	3.90
	11	3.90	3.90	3.90
	12	0.06	0.00	0.00
	13	3.90	3.90	3.90
	14	0.00	0.00	0.00
	15	0.00	0.00	0.00
	16	4.62	4.62	4.64
	17	4.62	4.64	4.64
	18	0.00	0.00	0.00
	19	4.62	4.62	4.64
	20	4.62	4.62	4.64
	21	4.62	4.61	4.64
	22	3.90	3.90	3.90
	23	3.91	3.92	3.92
	24	3.92	3.92	3.92
	25	3.92	3.94	3.92
	26	0.82	0.84	0.84
	27	0.00	0.00	0.00
	28	3.88	3.88	3.90
	29	3.92	3.91	3.92
	30	0.82	0.00	0.82
	31	3.92	0.82	3.92
	32	3.92	3.94	3.92
	33	3.92	3.92	3.92
	34	2.58	3.92	3.92
	35	0.06	12.58	4.34
	36	0.64	0.64	4.32
	37	0.64	0.64	4.34
	38	0.00	0.64	4.28
	39	0.00	0.00	0.00
	40	5.18	0.00	5.10
	41	0.94	5.20	0.94
	42	4.75	0.94	4.74
	43	4.86	4.81	4.81
	44	1.98	1.97	1.97

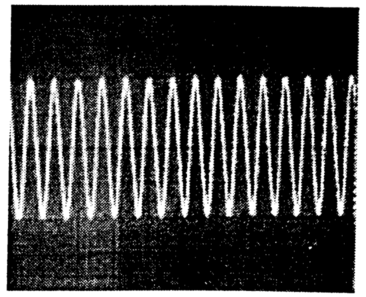
HIFI&SW		MODE		
LOC.	PIN	EE	PLAY	REC.
IC601	1	5.13	5.14	5.13
	2	5.16	5.16	5.15
	3	5.16	5.16	5.13
	4	5.15	5.15	5.14
	5	5.16	5.14	5.16
	6	0	0.01	0.01
	7	0.01	0.01	0.01
	8	0.01	0.01	0.01
	9	12.19	0.01	12.26
	10	12.19	12.23	12.26
	11	0.01	0.01	0.01
	12	5.16	5.15	5.15
	13	5.14	5.14	5.13
	14	5.16	5.17	5.13
	15	5.14	5.15	5.13
	16	12.32	12.35	12.38
LOC.	PIN	EE	PLAY	REC.
Q601	E	12.5	12.58	12.59
	B	12.5	0.06	12.57
	C	0.04	12.57	0.05
Q602	E	0.01	0.01	0.02
	B	0	5.16	0
	C	12.5	0.06	12.58
Q603	E	0.01	0.01	0.02
	B	0	0	0
	C	0.04	12.38	0.05
Q670	E	2.28	2.85	2.28
	B	1.59	2.16	1.59
	C	0.01	0.01	0.01
Q671	E	1.91	1.74	1.91
	B	1.22	1.04	1.22
	C	0.01	0.01	0.01



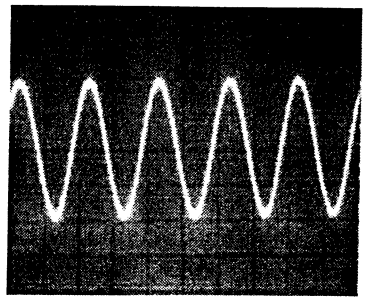
1 IC251 PIN2 X : 0.1V DIV
IF A.IN LEFT Y : 0.5mS DIV



2. IC251 PIN3 X: 0.5V DIV
IF A.IN RIGHT Y : 0.5mS DIV

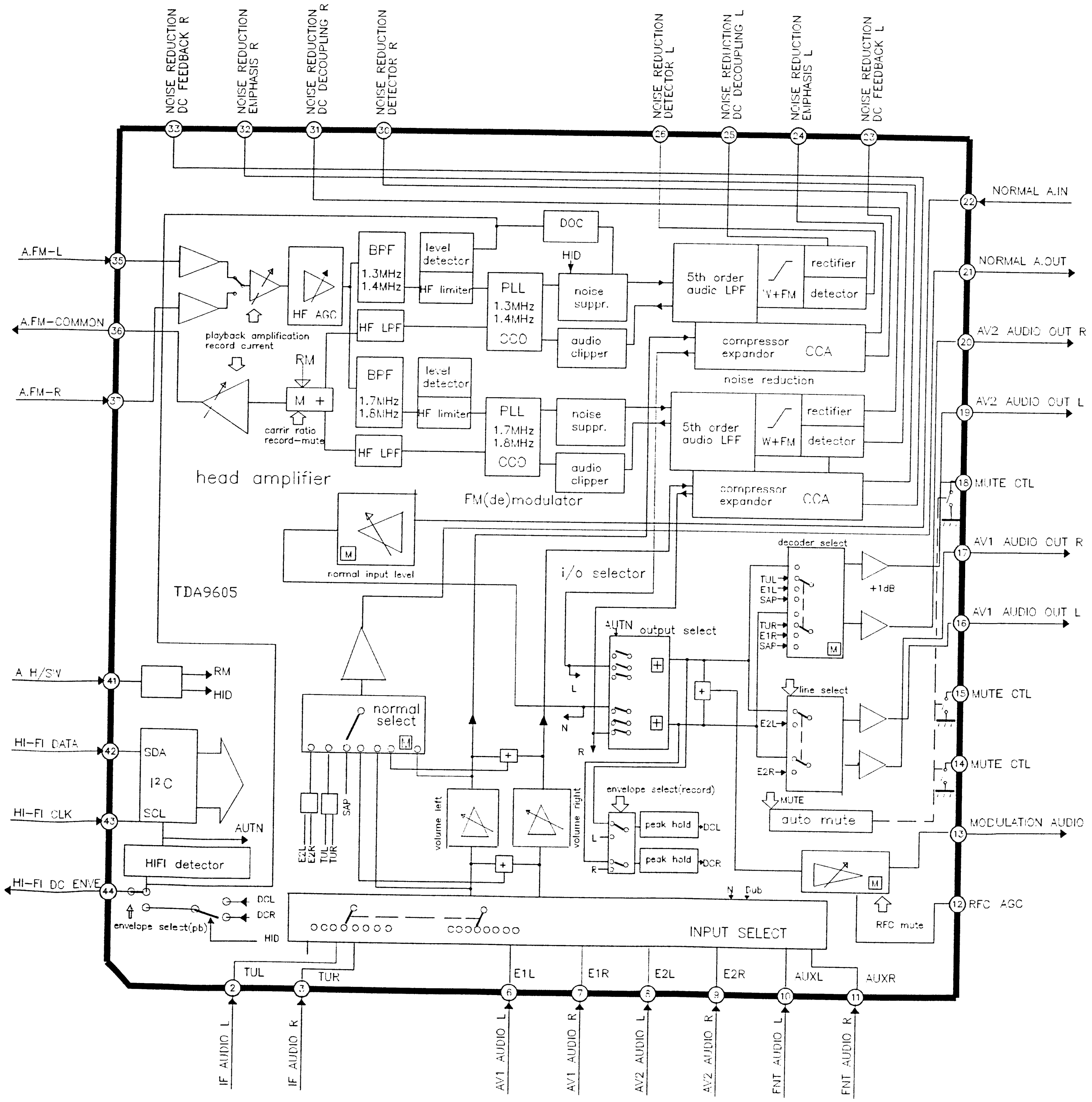


3. IC 251 PIN16 X: 0.5V DIV
A.OUT LEFT Y : 0.5mS DIV

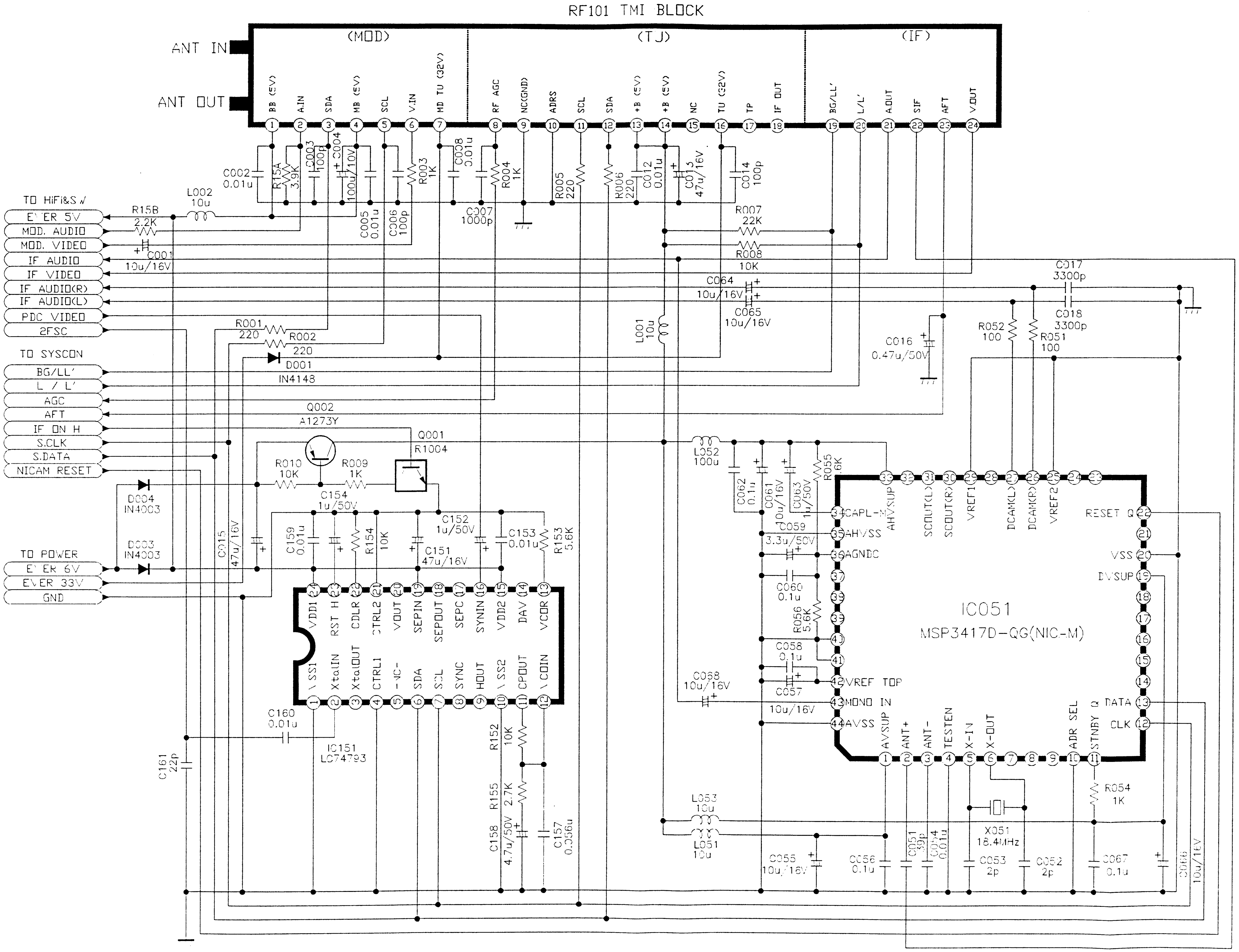


4. IC251 PIN 17 X : 0.5V DIV
A.OUT RIGHT Y: 0.5mS div

HIFFI BLOCK DIAGRAM


NOISE REDUCTION DC FEEDBACK R
NOISE REDUCTION EMPHASIS R
NOISE REDUCTION DC DECOUPLING R
NOISE REDUCTION DETECTOR R
NOISE REDUCTION DETECTOR L
NOISE REDUCTION DC DECOUPLING L
NOISE REDUCTION EMPHASIS L
NOISE REDUCTION DC FEEDBACK L
33
32
31
30
26
25
24
23
NORMAL A.IN
22
NORMAL A.OUT
21
AV2 AUDIO OUT R
20
AV2 AUDIO OUT L
19
MUTE CTL
18
AV1 AUDIO OUT R
17
AV1 AUDIO OUT L
16
MUTE CTL
15
MUTE CTL
14
MODULATION AUDIO
13
RFC AGC
12
A.FM-L
35
A.FM-COMMON
36
A.FM-R
37
A H/SW
41
HI-FI DATA
42
HI-FI CLK
43
HI-FI DC ENVE
44
DOC
HID
BPF
1.3MHz
1.4MHz
level detector
HF limiter
PLL
1.3MHz
1.4MHz
CCO
noise suppr.
audio clipper
HF AGC
HF LPF
playback amplification
record current
RM
M +
carrir ratio
record-mute
BPF
1.7MHz
1.8MHz
level detector
HF limiter
PLL
1.7MHz
1.8MHz
CCO
noise suppr.
audio clipper
HF LPF
5th order audic LPF
W+FM
rectifier
detector
compressor expandor
CCA
noise reduction
5th order audio LFF
W+FM
rectifier
detector
compressor expandor
CCA
head amplifier
FM(de)modulator
M
normal input level
i/o selector
TDA9605
decoder select
TUL
E1L
SAP
TUR
E1R
SAP
M
+1dB
AUTN
output select
L
N
R
line select
E2L
E2R
MUTE
auto mute
RM
HID
SDA
I²C
SCL
AUTN
HIFI detector
normal select
M
E2L
E2R
TUL
TUR
SAP
volume left
volume right
envelope select(record)
L
R
peak hold
DCL
peak hold
DCR
M
RFC mute
DCL
DCR
envelope select(pb)
HID
N
Dub
INPUT SELECT
TUL
TUR
E1L
E1R
E2L
E2R
AUXL
AUXR
2
3
6
7
8
9
10
11
IF AUDIO L
IF AUDIO R
AV1 AUDIO L
AV1 AUDIO R
AV2 AUDIO L
AV2 AUDIO R
FNT AUDIO L
FNT AUDIO R

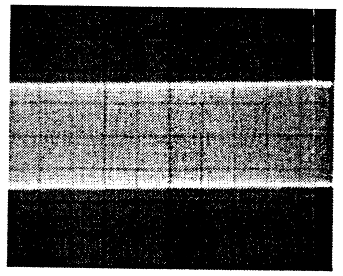
9. PIF CIRCUIT DIAGRAM

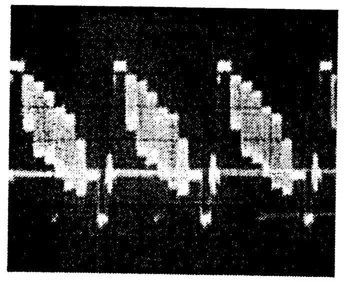

RF101 TMI BLOCK
(MOD)
(TJ)
(IF)
ANT IN
ANT OUT
BB (5V)
A.IN
SDA
MB (5V)
SCL
V.IN
MD TU (32V)
RF AGC
NC(GND)
ADRS
SCL
SDA
+B (5V)
+B (5V)
NC
TU (32V)
TP
IF OUT
BG/LL'
L/L'
A.OUT
SIF
AFT
V.OUT
TO HiFi&S.W
EVER 5V
MOD. AUDIO
MOD. VIDEO
IF AUDIO
IF VIDEO
IF AUDIO(R)
IF AUDIO(L)
PDC VIDEO
2FSC
TO SYSCON
BG/LL'
L / L'
AGC
AFT
IF ON H
S.CLK
S.DATA
NICAM RESET
TO POWER
EVER 6V
EVER 33V
GND
R158 2.2K
L002 10u
C001 10u/16V
C002 0.01u
R15A 3.9K
C003 100p
C004 100u/10V
C005 0.01u
C006 100p
R003 1K
C008 0.01u
C007 1000p
R004 1K
R005 220
R006 220
C012 0.01u
C013 47u/16V
C014 100p
R007 22K
R008 10K
C064 10u/16V
C065 10u/16V
L001 10u
C016 0.47u/50V
C017 3300p
C018 3300p
R052 100
R051 100
R001 220
R002 220
D001 IN4148
Q002 A1273Y
Q001 R1004
R010 10K
R009 1K
C154 1u/50V
D004 IN4003
D003 IN4003
C015 47u/16V
C159 0.01u
R154 10K
C152 1u/50V
C151 47u/16V
C153 0.01u
R153 5.6K
VDD1
RST H
CDLR
CTRL2
VOUT
SEPIN
SEPOUT
SEPC
SYNIN
VDD2
DAV
VCOR
VSS1
XtalIN
XtalOUT
CTRL1
-NC-
SDA
SCL
SYNC
HOUT
VSS2
CPOUT
VCOIN
C160 0.01u
IC151 LC74793
C161 22p
R152 10K
R155 2.7K
C158 4.7u/50V
C157 0.056u
L052 100u
C062 0.1u
C061 10u/16V
C063 1u/50V
R055 6K
CAPL-M
AHVSUP
SCOUT(L)
SCOUT(R)
VREF1
DCAM(L)
DCAM(R)
VREF2
RESET Q
C059 3.3u/50V
AHVSS
AGNDC
VSS
DVSUP
C060 0.1u
R056 5.6K
IC051
MSP3417D-QG(NIC-M)
C058 0.1u
C057 10u/16V
VREF TOP
C068 10u/16V
MONO IN
AVSS
DATA
CLK
AVSUP
ANT+
ANT-
TESTEN
X-IN
X-OUT
ADR SEL
STNBY Q
R054 1K
L053 10u
L051 10u
X051 18.4MHz
C055 10u/16V
C056 0.1u
C051 39p
C054 0.01u
C053 2p
C052 2p
C067 0.1u
C066 10u/16V

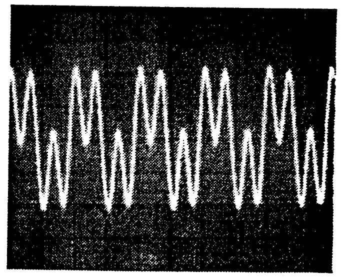
PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
IC051	1	5.02	0.00	5.02
	2	1.52	0.07	1.52
	3	1.52	0.00	1.52
	4	0.00	0.00	0.02
	5	2.44	0.07	2.44
	6	2.27	0.07	2.32
	7	0.06	0.07	0.3
	8	0.00	0.07	0.02
	9	0.00	0.07	0.02
	10	0.00	0.00	0.02
	11	5.07	0.00	5.07
	12	4.83	4.83	4.83
	13	4.84	4.76	4.77
	14	2.52	0.05	2.54
	15	2.54	0.07	2.56
	16	2.51	0.08	2.52
	17	0.10	0.08	0.32
	18	0.08	0.08	0.30
	19	5.08	0.00	5.08
	20	0.00	0.00	0.02
	21	0.02	0.00	0.36
	22	5.22	0.00	5.22
	23	0.00	0.00	0.00
	24	0.00	0.00	0.00
	25	0.00	0.00	0.02
	26	1.40	0.00	1.42
	27	1.40	0.00	1.42
	28	0.00	0.00	0.00
	29	0.00	0.00	0.02
	30	2.56	0.04	2.58
	31	0.00	0.04	2.56
	32	5.08	0.00	0.00
	33	2.53	0.00	5.08
	34	0.00	0.00	2.53
	35	2.56	0.00	0.00
	36	0.00	0.00	2.56
	37	0.00	0.00	0.00
	38	0.00	0.00	0.00
	39	0.00	0.00	0.00
	40	0.00	0.00	0.00
	41	0.00	0.00	0.00
	42	2.60	0.00	2.26
	43	2.56	0.04	2.56
	44	0.00	0.00	0.00

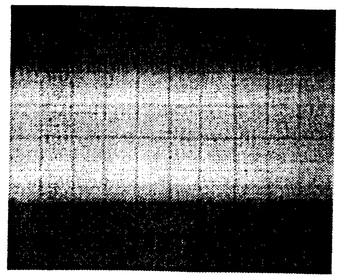
PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
IC151	1	0.02	0.01	0.02
	2	2.66	2.68	2.64
	3	2.66	2.70	2.66
	4	0.02	0.00	0.02
	5	0.00	0.00	0.00
	6	4.83	4.75	4.71
	7	4.87	4.83	4.76
	8	5.22	5.26	5.20
	9	4.84	4.86	4.80
	10	0.02	0.00	0.02
	11	2.30	2.31	2.28
	12	2.30	2.32	2.28
	13	1.32	1.00	0.98
	14	0.00	0.00	0.01
	15	5.24	5.26	5.20
	16	3.16	3.12	3.07
	17	2.60	2.62	2.57
	18	4.80	4.84	4.77
	19	5.24	5.26	5.20
	20	5.18	5.21	5.14
	21	0.02	0.00	0.02
	22	3.80	3.82	3.77
	23	5.20	5.24	5.18
	24	5.24	5.26	5.20

PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
Q001	E	0.002	0.002	0.002
	B	0.01	0.01	0.012
	C	5.86	5.86	5.86
Q002	E	5.86	5.86	5.86
	B	5.82	5.86	5.8
	C	0.012	0.012	0.018


1 IC 151 PIN 2 X : 0.5V DIV
2 FSC IN Y : 2uS DIV

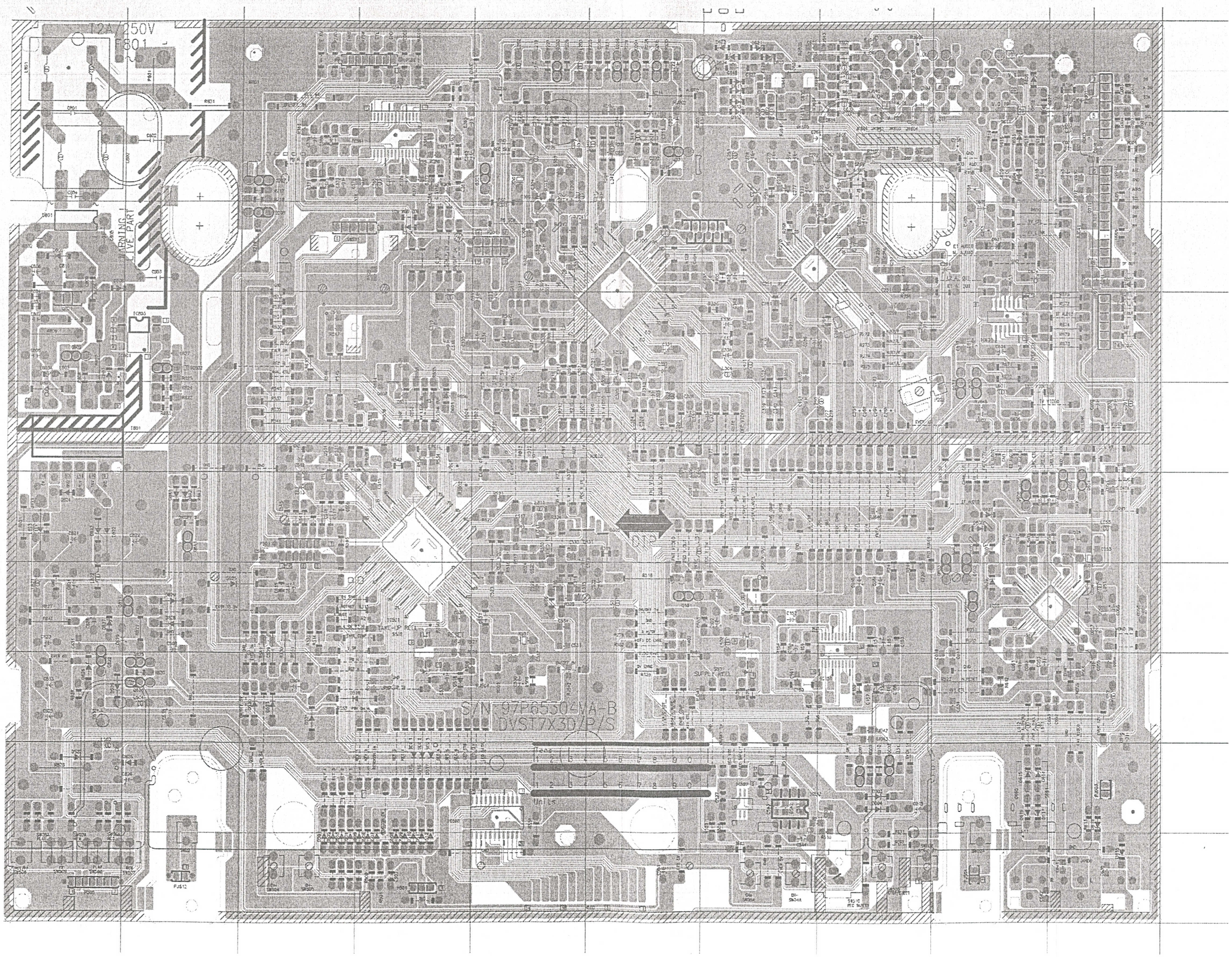

2. IC151 PIN16 X: 0.5V DIV
PDC V.IN Y : 20uS DIV


3. IC051 PIN 43 X: 0.2V DIV
MONO IN Y : 0.5mS DIV


4. IC051 PIN 2 X :0.1V DIV
SIF IN Y : 0.5mS DIV

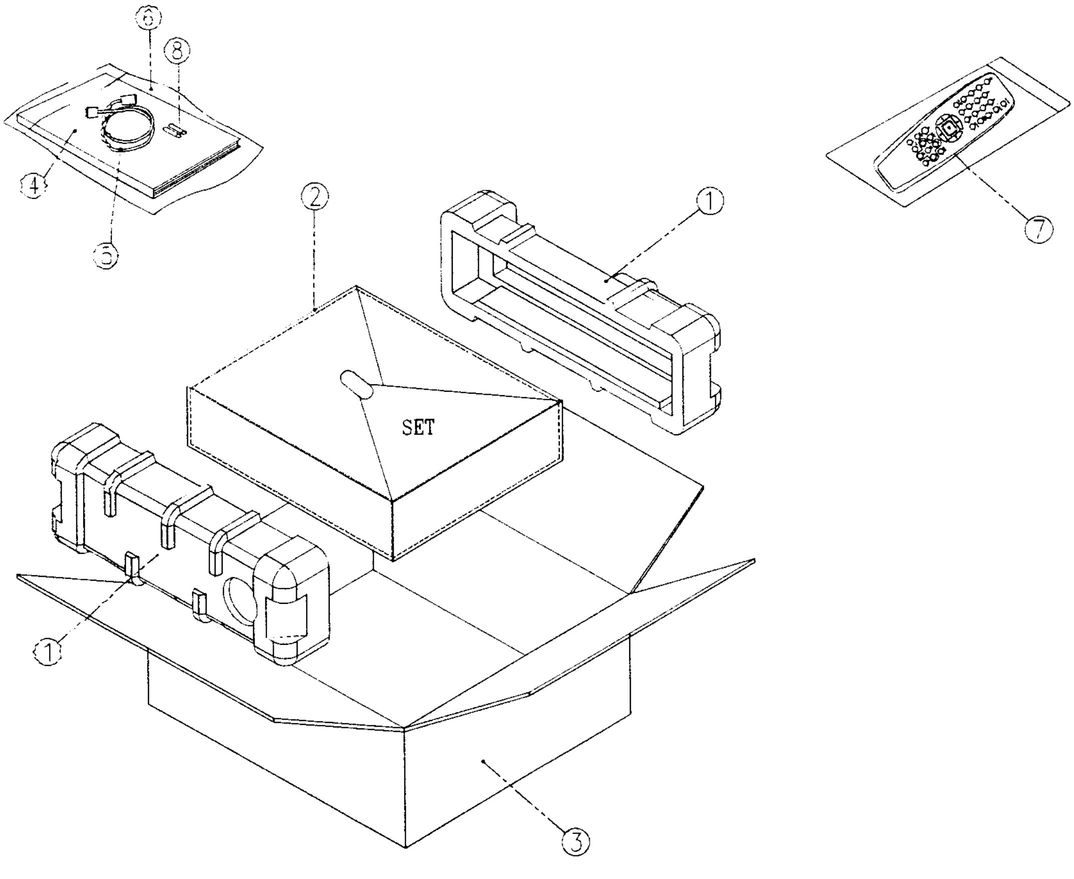
COMPONENTS LOCATION GUIDE ON PCB BOTTOM VIEW

PCB MAIN


T2A/250V
F801
WARNING!
LIVE PART
DIP
S/N: 97P65504VA-B
DVST7X3D/P/S

DISASSEMBLY

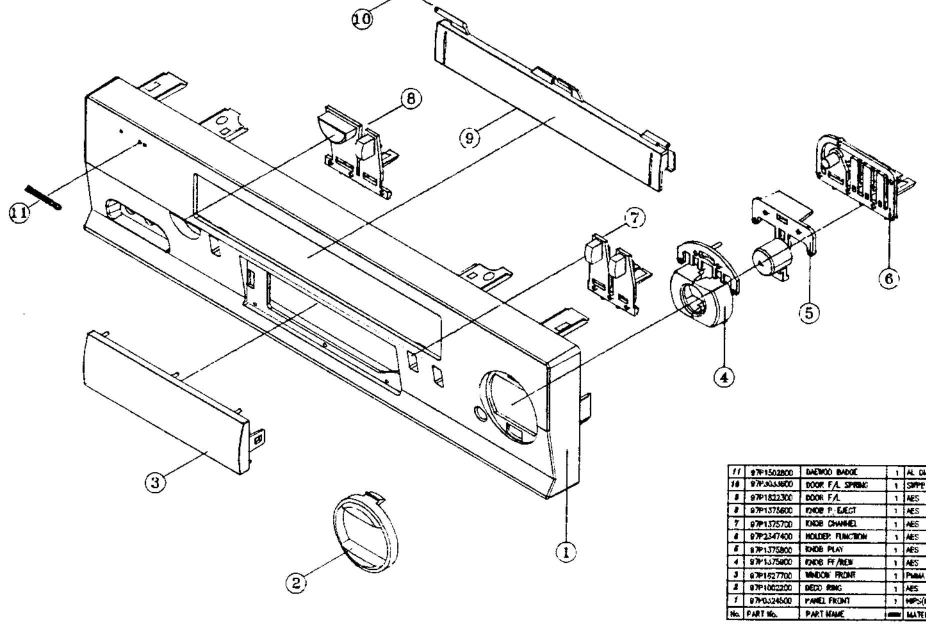
1. PACKING ASS'Y



NO.	PART NAME	PART NO.	QUANTITY	MATERIAL	REMARK
7	BATTERY	486A716202	2	AAA 1.5 V (SUPERGARD)	
7	REMOCON HANDSET AS	97P1R2TAA1	1	VR-F2TA	
6	COVER ACCESSORY	97P0424100	1	LD-PE T0.1	
5	CABLE RF	97P881RP10	1	PAL 1.0M	
4	MANUAL OWNERS	97P9560000	1	ALL MODEL	
3	BOX CARTON	97P5051900	1	(SC260+K200)*K200*EX225	
2	POLY BAG FOR SET	97P4808500	1	P.E FOAM(800*800*T0.5)	
1	PAD FRONT/BACK	97P4930000	1	EPS	

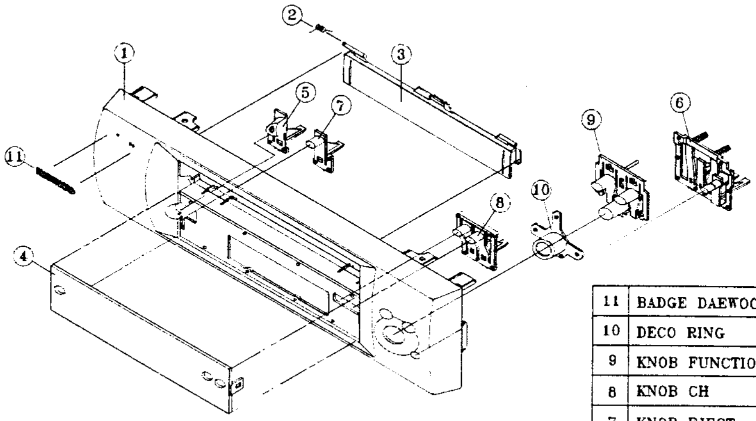
2. FRONT PANEL ASSEMBLY

DVST7J3 SERIES



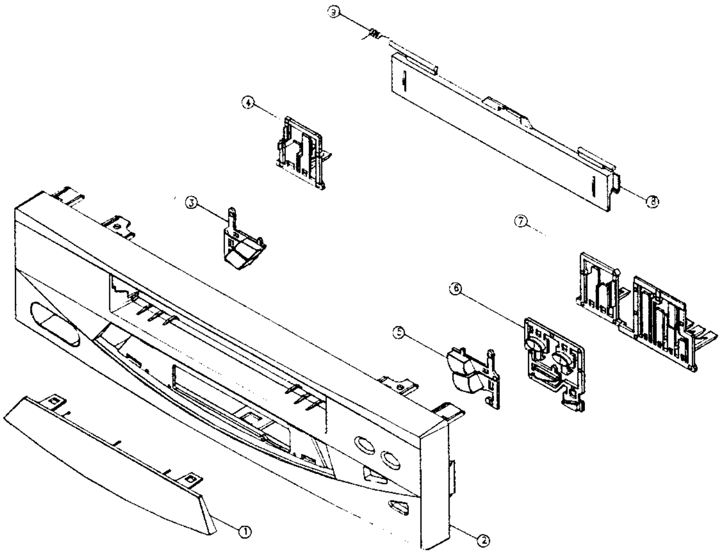
11	97P1502800	DAEWOO BADGE	1	AL DIA CUTTING	
10	97P3033600	DOOR F/L SPRING	1	SWPB 5088N	
9	97P1822300	DOOR F/L	1	ABS	
8	97P1375600	KNOB P. EJECT	1	ABS	
7	97P1375700	KNOB CHANNEL	1	ABS	
6	97P2347400	HOLDER FUNCTION	1	ABS	
5	97P1375800	KNOB PLAY	1	ABS	
4	97P1375900	KNOB FF/REW	1	ABS	
3	97P1527700	WINDOW FRONT	1	PMMA	
2	97P1002200	DECO RING	1	ABS	
1	97P0324500	PANEL FRONT	1	HIPS(HB)	
No.	PART No.	PART NAME	[illegible]	MATERIAL	REMARK

DVST7C3 SERIES



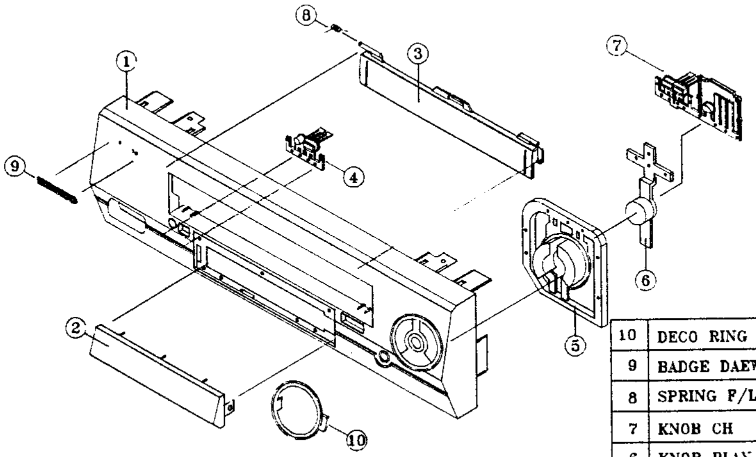
11	BADGE DAEWOO	97P1505500	1	AL	
10	DECO RING	97P1002000	1	ABS	
9	KNOB FUNCTION	97P1375000	1	ABS	
8	KNOB CH	97P1374900	1	ABS	
7	KNOB EJECT	97P1376000	1	ABS	
6	HOLDER FUNCTION	97P2347300	1	ABS	
5	KNOB POWER	97P1374800	1	ABS	
4	WINDOW FRONT	97P1627500	1	ABS	
3	DOOR F/L	97P1822300	1	ABS	
No. 2	PART NAME SPRING F/L DOOR	PART No. 97P3033600	QUANTITY 1	MATERIAL SWPB 5088N	REMARK
No. 1	PART NAME PANEL FRONT	PART No. 97P0324100	QUANTITY 1	MATERIAL HI-PS(HB)	REMARK

DVST7D3 SERIES



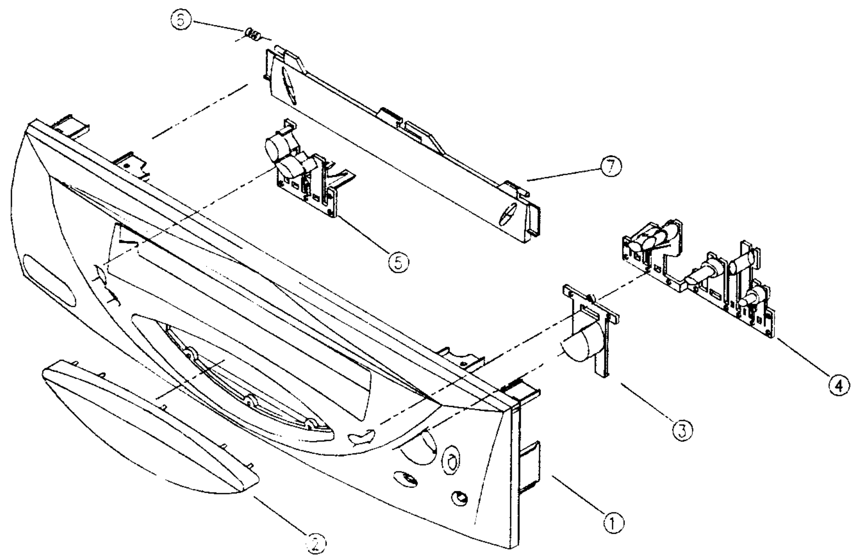
No.	PART No.	PART NAME	[illegible]	MATERIAL	REMARK
9	97P3033600	SPRING DOOR F/L	1	AL	
8	97P1822300	DOOR F/L	1	SWPB 5088N	
7	97P1374000	KNOB HOLDER R	1	ABS	
6	97P1373600	KNOB FUNCTION	1	ABS	
5	97P1373800	KNOB CHANNEL	1	ABS	
4	97P1373900	KNOB HOLDER L	1	ABS	
3	97P1373700	KNOB POWER	1	ABS	
2	97P0323810	PANEL FRONT	1	HIPS(V0)	
1	97P1627200	WINDOW FRONT	1	PMMA	

DVST7L3 SERIES



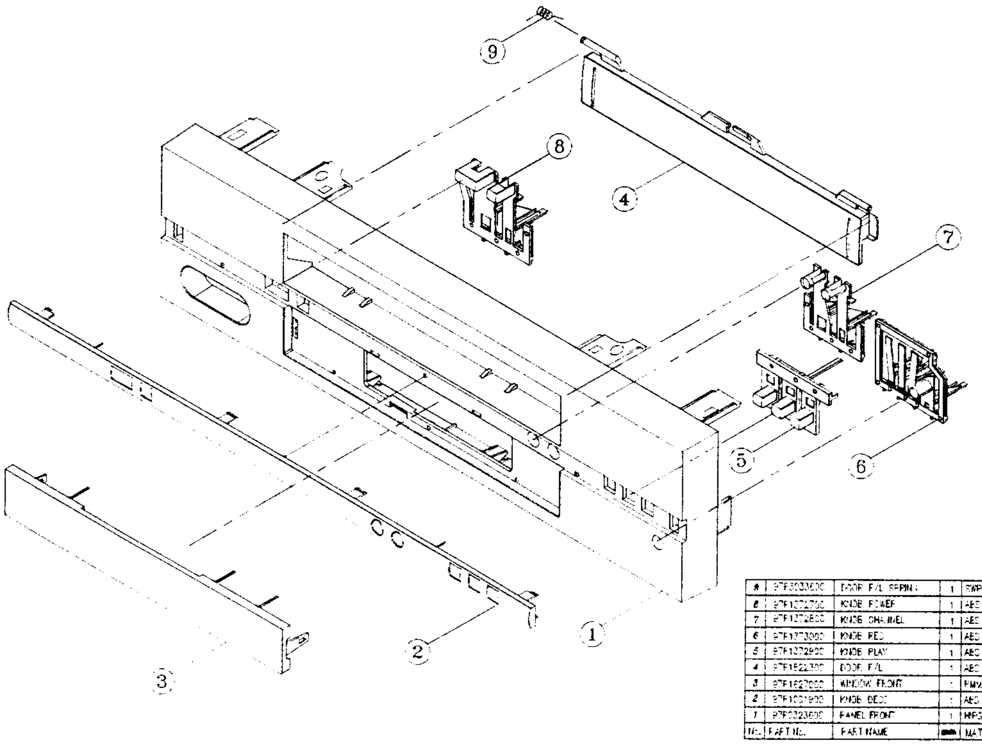
NO.	PART NAME	PART NO.	QUANTITY	MATERIAL	REMARK
10	DECO RING	97P1002300	1	ABS	
9	BADGE DAEWOO	97P1502800	1	AL	
8	SPRING F/L DOOR	97P3033600	1	SWPB	
7	KNOB CH	97P1376400	1	ABS	
6	KNOB PLAY	97P1376300	1	ABS	
5	KNOB FUNCTION	97P1376200	1	ABS	
4	KNOB P/EJECT	97P1376100	1	ABS	
3	DOOR F/L	97P1822300	1	ABS	
2	WINDOW FRONT	97P1627800	1	PMMA	
1	PANEL FRONT	97P0324300	1	HI-PS(HB)	

DVST7B3 SERIES



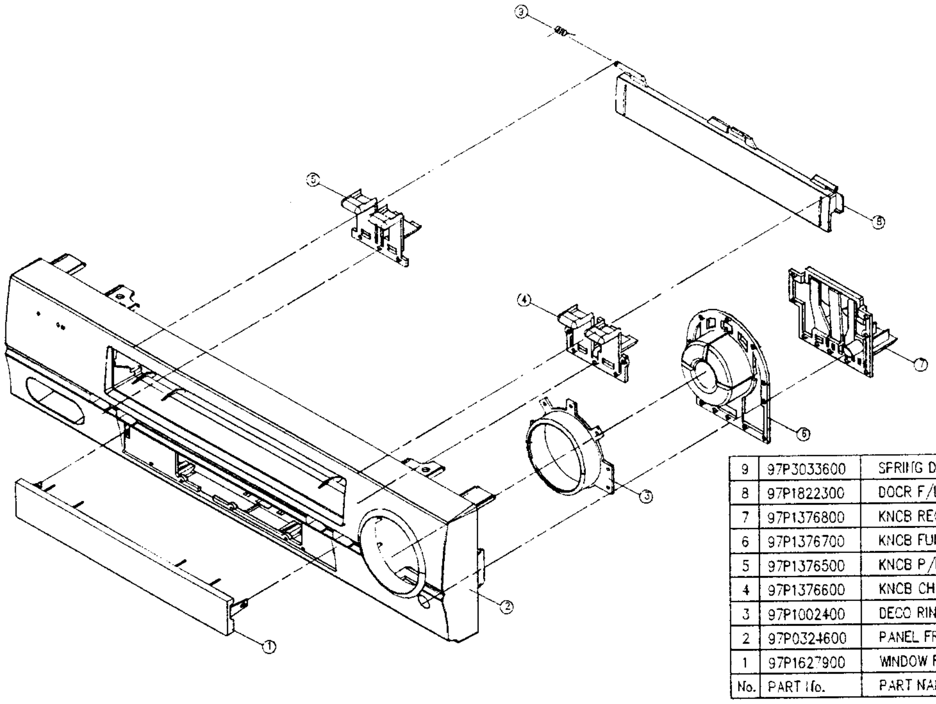
7	97P1821600	DOOR F/L	1	ABS	
6	97P3033600	DOOR F/L SPRING	1	SWPB 50RRN	
5	97P1374100	KNOB F/EJECT	1	ABS	
4	97P1374200	KNOB FUNCTION	1	ABS	
3	97P1374300	KNOB PLAY	1	ABS	
2	97P1627300	WINDOW FRONT	1	PMMA	
1	97P0323900	PANEL FRONT	1	HIPS(HB)	
No.	PART No.	PART NAME		MATERIAL	REMARK

DVST7E3 SERIES



9	97P3033600	DOOR F/L SPRING	1	SWPB 50RRN	
8	97P1372700	KNOB POWER	1	ABS	
7	97P1372800	KNOB CHANNEL	1	ABS	
6	97P1373000	KNOB REC	1	ABS	
5	97P1372900	KNOB PLAY	1	ABS	
4	97P1522300	DOOR F/L	1	ABS	
3	97P1627000	WINDOW FRONT	1	PMMA	
2	97P1001900	KNOB DECO	1	ABS	
1	97P0323600	PANEL FRONT	1	HIPS(V0)	
No.	PART No.	PART NAME		MATERIAL	REMARK

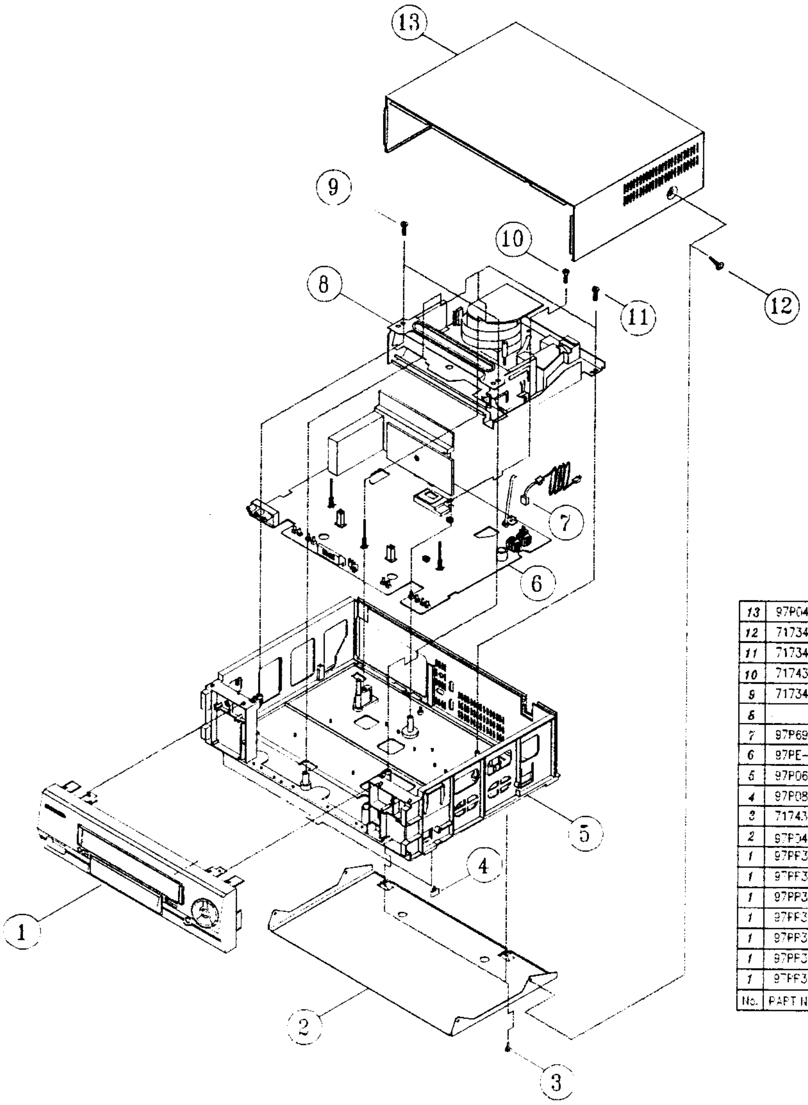
DVST7M3 SERIES



No.	PART No.	PART NAME	QUANTITY	MATERIAL	REMARK
9	97P3033600	SPRING DOOR F/L	1	AL	
8	97P1822300	DOOR F/L	1	SWPB 5088N	
7	97P1376800	KNOB REC	1	ABS	
6	97P1376700	KNOB FUNCTION	1	ABS	
5	97P1376500	KNOB P/EJECT	1	ABS	
4	97P1376600	KNOB CHANNEL	1	ABS	
3	97P1002400	DECO RING	1	ABS	
2	97P0324600	PANEL FRONT	1	HIPS(HB)	
1	97P1627900	WINDOW FRONT	1	PMMA	

3. INSTRUMENT DISASSEMBLY

3-1. SET TOTAL



13	97P0474000	COVER TOP	1	PCM T0.5	
12	7173401212	SCREW TAPPTITE	2	TT2 BIN 4X12 MFZN BK	COVER TOP FIX
11	7173401211	SCREW TAPPTITE	3	TT2 BIN 4X12 MFZN	DECK FIX
10	7174301011	SCREW TAPPTITE	1	TT2 RND 3X10 MFZN	F/AMP FIX
9	7173401211	SCREW TAPPTITE	2	TT2 BIN 4X12 MFZN	F/L FIX
8		DECK TOTAL AS	1		
7	97P6923101	CORD POWER AS	1	KKP-419C 0.75MM 2100MM	EUROP
6	97PE------	PCB MAIN MANUAL AS	1		
5	97P0611300	CHASSIS MAIN	1	HIPS(HB)	
4	97P0800602	LEG	2	PLASTOMER	
3	7174301011	SCREW TAPPTITE	2	TT2 RND 3X10 MFZN	C/BOTTOM FIX
2	97P0476600	COVER BOTTOM	1	SECC T0.4	
1	97PF323900	PANEL FRONT AS	1	DV-T8B1D	
1	97PF323600	PANEL FRONT AS	1	DV-T8E1D	
1	97PP324600	PANEL FRONT AS	1	DV-T8M1D	
1	97PF324500	PANEL FRONT AS	1	DV-T7J1D	
1	97PP323800	PANEL FRONT AS	1	DV-T8D4D	
1	97PF324100	PANEL FRONT AS	1	DV-T4C	
1	97PF324300	PANEL FRONT AS	1	DVST7L1D	
No.	PART No.	PART NAME	[illegible]	MATERIAL	REMARK